RHODE ISLAND STANDARD DETAILS INDEX

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724(756)	Cronita 2' 0" Dadius Corner
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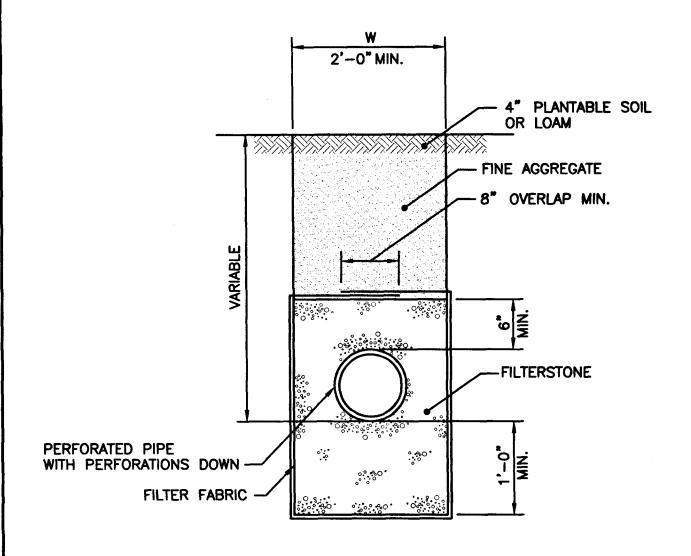
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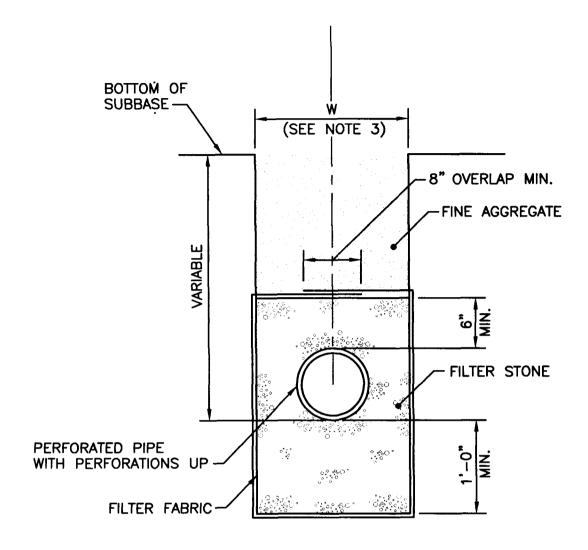
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- 1. SHALL BE IN ACCORDANCE WITH SECTION 703 OF THE R.I. STANDARD SPECIFICATIONS.
 2. WIDTH (W) OF TRENCH = INSIDE DIAMETER OF PIPE + 1'-0" OR 2'-0"
 WHICH EVER IS GREATER.
- 3. MINIMUM PIPE DIAMETER 8".
- 4. DISTANCE DIMENSIONS ARE GIVEN TO THE OUTSIDE DIAMETER OF PIPE.

	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS NO. BY DATE	UNDERDRAIN	R.I. STANDARD
	CHIEF ENGINEER THE SPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	1.1.0



- 1. SHALL BE IN ACCORDANCE WITH SECTION 703 OF THE R.I. STANDARD SPECIFICATIONS. 2. MINIMUM PIPE DIAMETER 1'-0".
- 3. TRENCH WIDTHS: PIPE <u>∠</u> 36" = 0.D.+ 24"

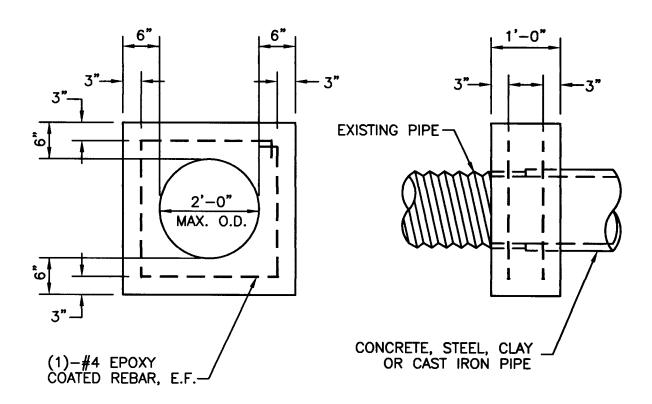
EACH SIDE

PIPE > 36" = 0.D. + 30"

EACH SIDE

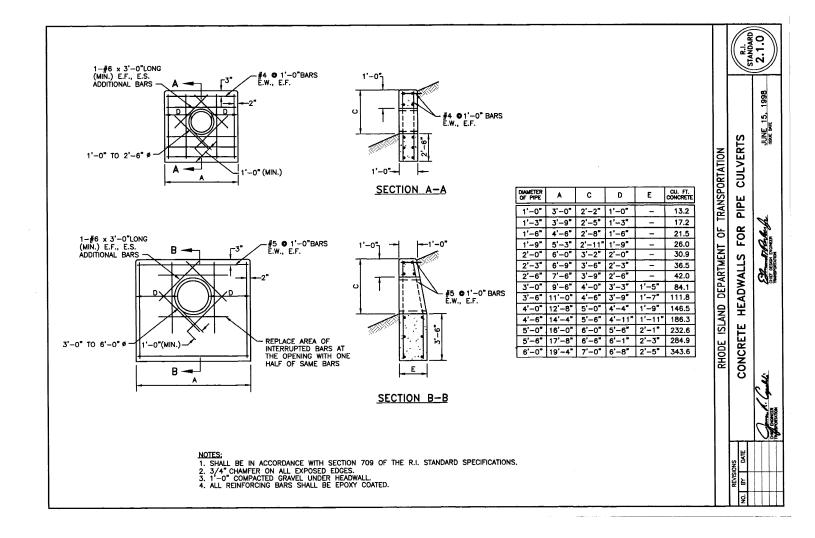
- 4. DISTANCE DIMENSIONS ARE GIVEN TO THE OUTSIDE DIAMETER OF PIPE.
- 5. SEE CONSTRUCTION PLANS FOR LOCATION.

	RI	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY	S DATE	COMBINATION DRAIN	R.I. STANDARD
		CHUF ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	1.2.0



- 1. SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE R.I. STANDARD SPECIFICATIONS.
- MAXIMUM PIPE DIAMETER FOR USE OF CONNECTING COLLAR IS 2'-0".
 PIPE WITH LARGEST OUTSIDE DIAMETER USED TO DETERMINE SIZE OF COLLAR.

		F	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	DATE	CONCRETE CONNECTING COLLAR	R.I. STANDARD
			CHUF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER ISSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	1.3.0

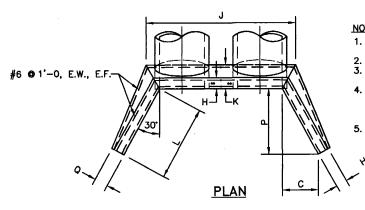


		NO. BY DATE	REVISIONS	7.7
CHE ENGINEER THE SEPORTATION	3 -0 10	7, 6, 1,	STANDARD	RHOUL ISLAND DEPARTMENT OF TRANSFORTATION
Eman Roberth CHIEF DESIGN ENGINEER TRANSPORTATION	S -0 IU / -U FIFE CULVERIS	7 7 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	HEADWAILS	PARIMENI OF
JUNE 15, 1998 ISSUE DATE	COLVERIO		STANDARD HEADWALLS FOR MILLTIPLE	RANGEORIATION
2.2.0B	//STANDARD	R.I.)	

	TABLE OF DIMENSIONS AND CONCRETE VOLUMES PER HEADWALL									
		TABLE		SIONS AND -6" TO 7'-				ALL		
DIAMETER OF PIPE CULVERTS										
ш		3'-6"	4'-0"	4'-6"	5'-0"	5'~6"	6'-0"	6'-6"	7'-0'	
SLOPE	Α	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	1'-6"	
ᅜ	В	4'-4"	4'-10"	5'-4"	5'-10"	6'-4"	6'-10"	7'-4"	7'-10"	
	С	3'-3 3/4"	3'-9"	4'-2 1/4"	4'-7"	5'-0 5/8"	5'-5 3/4"	5'-11"	6'-4 1/4"	
FIL	D	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	
\ 	E	0'-6"	0'-6"	0'6"	0'-6"	0'-6"	0'-6"	0'-6"	0'-6"	
/2:1	Н	0'-10"	0'-10"	0'-11"	1'-0"	1'-1"	1'-2"	1'-3"	1'-4"	
— ·	J	11'-8 1/2"	13'-2 1/4"	14'-9 1/4"	16'-4"	17'-11"	19'-6"	21'-0 3/4"	22'-7 5/8"	
-	К	1'-11"	2'-0 1/2"	2'-3"	2'-5 1/2"	2'-8"	2'-10 1/2"	3'-1"	3'-3 1/2"	
FOR	L	6'-7 5/8"	7'-6"	8'-4 1/2"	9'2 7/8"	10'-1 1/4"	10'-11 5/8"	11'-10"	12'-8 3/8"	
1	Р	5'-9"	6'-6"	7'-3"	8'-0"	8'-9"	9'-6"	10'-3"	11'-0"	
	Q	0'-11 1/2"	0'-11 1/2"	1'-0 1/2"	1'-1 1/2"	1'-2 1/2"	1'-3 1/2"	1'-4 1/2"	1'-5 1/2"	
CU. YD.	CONC. PIPE	3.6	4.4	5.7	7.1	8.8	10.8	12.9	15.4	
CONC.	C.M. PIPE	3.8	4.7	6.1	7.7	9.5	11.7	14.4	16.7	
PE 1	С	4'-4"	4'-10 7/8"	5'-5 3/4"	6'-0 3/4"	6'-7 5/8"	7'-2 5/8"	7'-9 1/2"	8'-4 1/2"	
22	J	11'-8 1/4"	13'-2"	14'-9"	16'-3 3/4"	17'-10 3/4"	19'-5 1/2"	21'-0 1/2"	22'-7 1/8"	
ا چێ ا	L	8'-0"	9'-9 3/4"	10'-11 5/8"	12'-1 1/2"	13'-3 3/8"	14'-5 1/4"	15 ' –7 "	16'-9"	
FOR 2:1 FILL SLOF	Р	7'-6"	8'-6"	9'-6"	10'-6"	11'-6"	12'-6"	13'-6"	14'-6"	
CU. YD.	CONC. PIPE	4.3	5.3	6.8	8.6	10.7	13.0	15.7	18.7	
CONC.	C.M. PIPE	4.5	5.6	7.2	9.1	11.4	13.9	16.8	20.0	

SHEET 2 OF 2

 $\frac{\text{NOTE:}}{\text{FOR ALL DIMENSIONS NOT SHOWN, SEE VALUES LISTED ABOVE FOR 1 1/2:1 FILL SLOPE}}$



- NOTES:

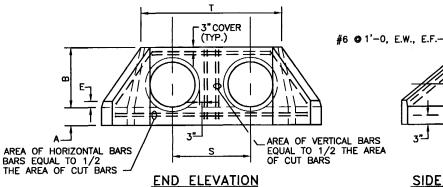
 1. SHALL BE IN ACCORDANCE WITH SECTION 709 OF THE STANDARD SPECIFICATIONS.

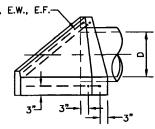
 2. QUANTITIES GIVEN ARE FOR ONE ENDWALL.

 3. FOR DIMENSIONS NOT GIVEN IN TABLE, SEE SHEET 2 OF 2.

 4. ON SHALLOW FILLS, WHERE ENDWALLS ARE 1'-O" OR LESS BELOW SHOULDER LINE, THE TOP OF THE ENDWALL SHALL BE CONSTRUCTED PARALLEL TO THE GRADE OF THE ROAD.

 5. All REINFORCING BARS SHALL BE EPOXY COATED.





SIDE ELEVATION

1	FOR CORRUGATED METAL PIPE									
			FILL SLOP	E 1 1/2:1	FILL S	LOPE 2:1				
DIAMETER OF PIPE	s	Т	CU. YD. CONCRETE ONE DOUBLE ENDWALL	INCREASE CU. YD. FOR EACH ADDITIONAL PIPE	CU. YD. CONCRETE ONE DOUBLE ENDWALL	INCREASE CU. YD. FOR EACH ADDITIONAL PIPE				
3'-6"	5'-3 1/2"	8'-9 1/2"	5.1	1.3	5.8	1.3				
4'-0"	6'-0 1/2"	10'-0 1/2"	6.3	1.7	7.2	1.4				
4'-6"	6'-9 1/2"	11'-3 1/2"	8.3	2.1	8.4	2.1				
5'-0"	7'-6 1/2"	12'-6 1/2"	10.4	2.7	11.8	2.4				
5'-6"	8'-3 1/2"	13'-9 1/2"	12.8	3.3	14.6	3.9				
6'-0"	9'-0 1/2"	16'-0 1/2"	16.7	4.1	17.9	4.1				
6'-6"	9'-9 1/2"	16'-3 1/2"	19.0	5.0	21.7	4.9				
7'-0"	10'-6 1/2"	17'-6 1/2"	22.8	6.0	26.0	5.1				

	FOR CONCRETE PIPE								
			FILL SLOP	E 1 1/2:1	FILL SLOPE 2:1				
DIAMETER OF PIPE	S	Т	CU. YD. CONCRETE ONE DOUBLE ENDWALL	INCREASE CU. YD. FOR EACH ADDITIONAL PIPE	CU. YD. CONCRETE ONE DOUBLE ENDWALL	INCREASE CU. YD. FOR EACH ADDITIONAL PIPE			
3'-6"	6'-0"	9'-6"	4.1	1.3	5.5	1.3			
4'-0"	6'-10"	10'-10"	6.0	1.6	6.9	1.6			
4'-6"	7'-0"	12'-2"	7.7	2.1	8.8	2.1			
5'-0 "	8'-6"	13'-6"	9.7	2.6	11.2	2.6			
5'-6"	9'-4"	14'-10"	12.1	3.3	13.9	3.3			
6'-0"	10'-2"	16'-2"	14.7	4.0	16.9	4.0			
6'-6"	11'-0"	17'-6"	17.7	4.8	20.4	4.8			
7'-0"	11'-10"	18'-10"	21.2	5.7	24.4	5.7			

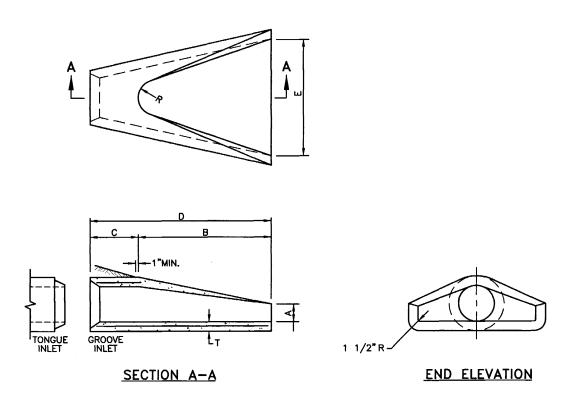
SHEET 1 OF 2

	RHODE	ISI	_AND	DEPAR	RTMENT	OF	TRA	NSPOF	RTAII	ON
_										_

REVISIONS STANDARD HEADWALLS FOR MULTIPLE 3'-6" TO 7'-0" PIPE CULVERTS BY DATE

JUNE 15, 1998

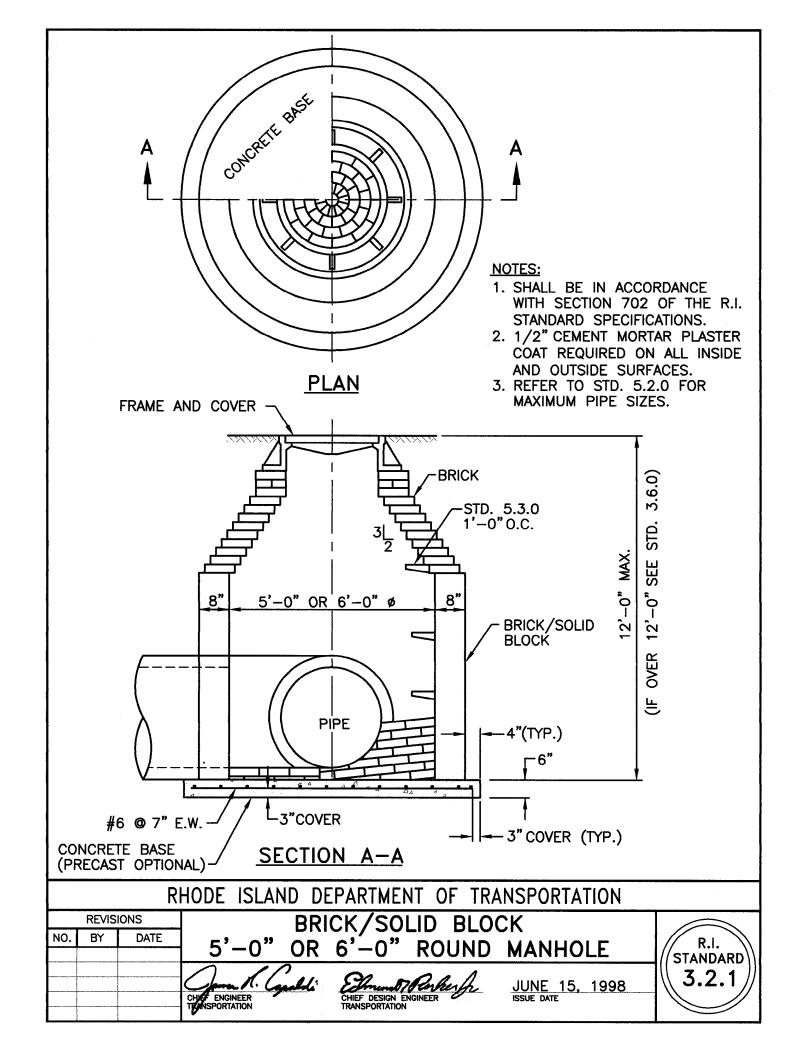
R.I. STANDARD 2.2.0A

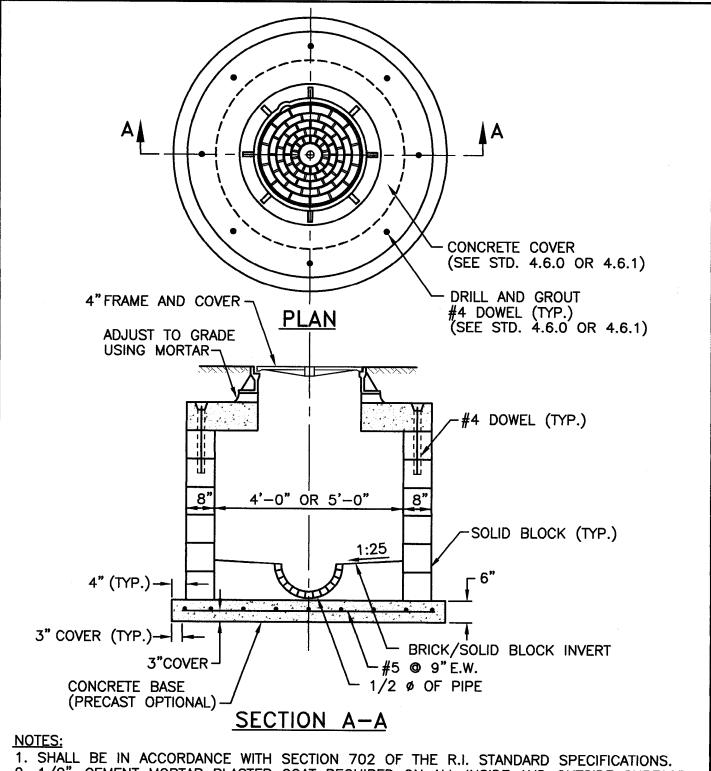


		REINFORCEMENT						
				_	-			ONE LAYER REINFORCEMENT IN CENTER OF WALL
DIA.	A	В	С	D	£	R	<u></u>	MIN. AREA OF EACH WAY (SQ. IN./FT.)
1'-0"	4"	2'-0"	4'-0 7/8"	6'-0 7/8"	2'-0"	9"	2*	0.048
1'-3"	6*	2'-3"	3'-10"	6'-1"	2'-6"	11"	2 1/4"	0.054
1'-6"	9*	2'-3"	3'-10"	6'-1"	3'-0"	12"	2 1/2"	0.060
2'-0"	9 1/2"	3'-7 1/2"	2'-6"	6'-1 1/2"	4'-0"	1'-2"	3"	0.072
2'-6"	1'-0"	4'-6"	1'-7 3/4"	6'-1 3/4"	5'-0"	1'-3"	3 1/2"	0.084
3'-0"	1'-3"	5'-3"	2'-10 3/4"	8'-1 3/4"	6'-0"	1'-8"	4"	0.096
3'-6"	1'-9"	5'-3"	2'-11"	8'-2"	6'-6"	1'-10"	4 1/2"	0.108
4'-0"	2'-0"	6'-0"	2'-2"	8'-2"	7'-0"	1'-10"	5"	0.120
4'-6"	2'-3"	5'-5"	2'-11"	8'-4"	7'-6"	2'-0"	5 1/2*	0.132
5'-0"	2'-6"	5'-0 "	3'-3"	8'-3"	8'-0"	2'-0"	6*	0.144

 ${\color{red} {\rm NOTE:}}$ Shall be in accordance with section 701 of the R.I. Standard specifications.

	RHODE IS	SLAND DEPARTMENT OF TRANSPOR	RTATION	
REVISIONS NO. BY DATE	PRECAST	CONCRETE FLARED END S	SECTION	R.I. STANDARD
	CHIST ENGINEER	Chromot Ferber Jr. OHET DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	2.3.0

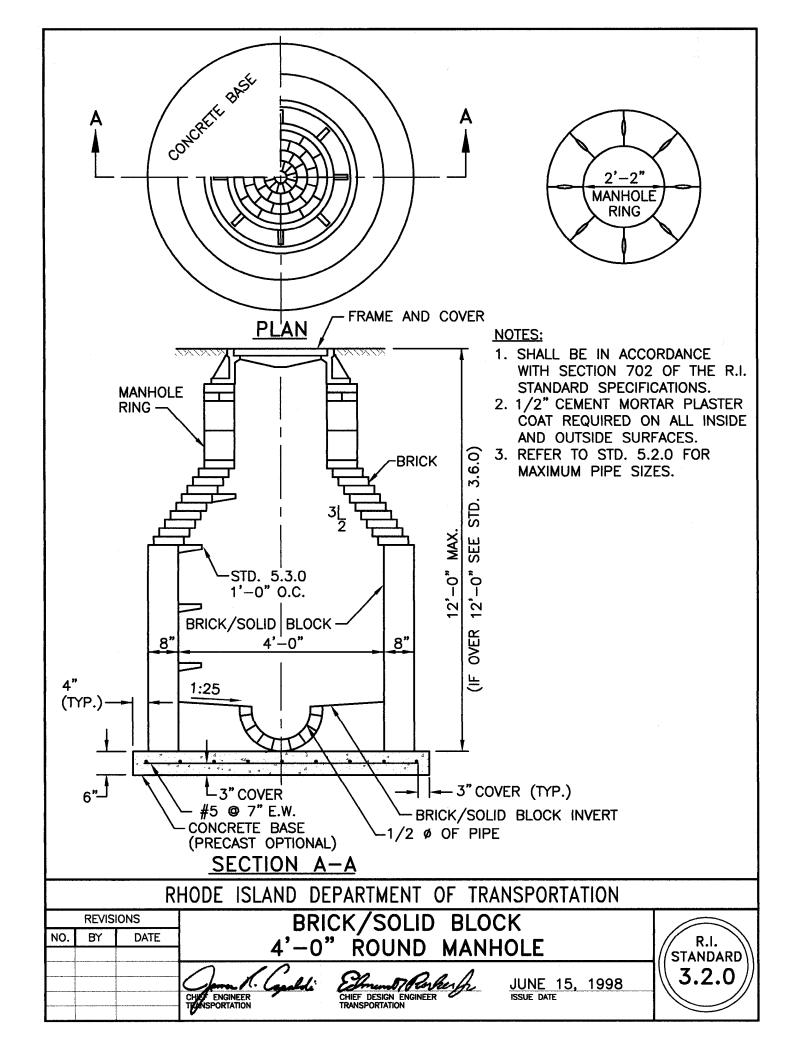


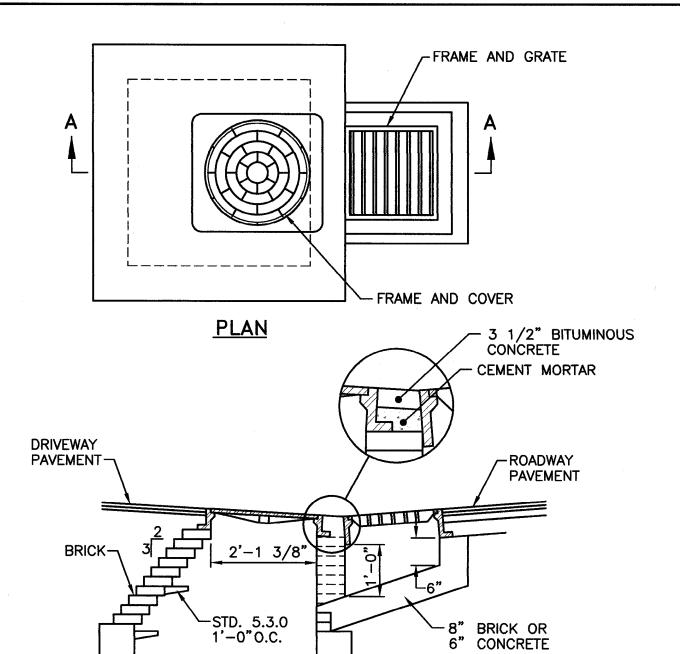


- 2. 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.
- 3. ADJUST DOWEL LOCATION BASED ON PIPE CONFIGURATION, AS REQUIRED.
- 4. PIPE COVER FOR THIS DETAIL SHALL BE 1'-6" TO 3'-0".
- 5. ALL PIPES SHALL BE SEALED TO MANHOLE ON INSIDE AND OUTSIDE SURFACES.
- 6. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

	REVIS	IONS	SOL	ID BLOCK SHAL	LOW	
NO.	BY	DATE	4'-0" OR	5'-0" ROUND	MANHOLE	R.I. STANDARD
			CHIP ENGINEER TENSPORTATION	Elment Porker fr CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	3.2.2





SECTION A-A

4'-0"
CATCH BASIN

STD. 3.3.0

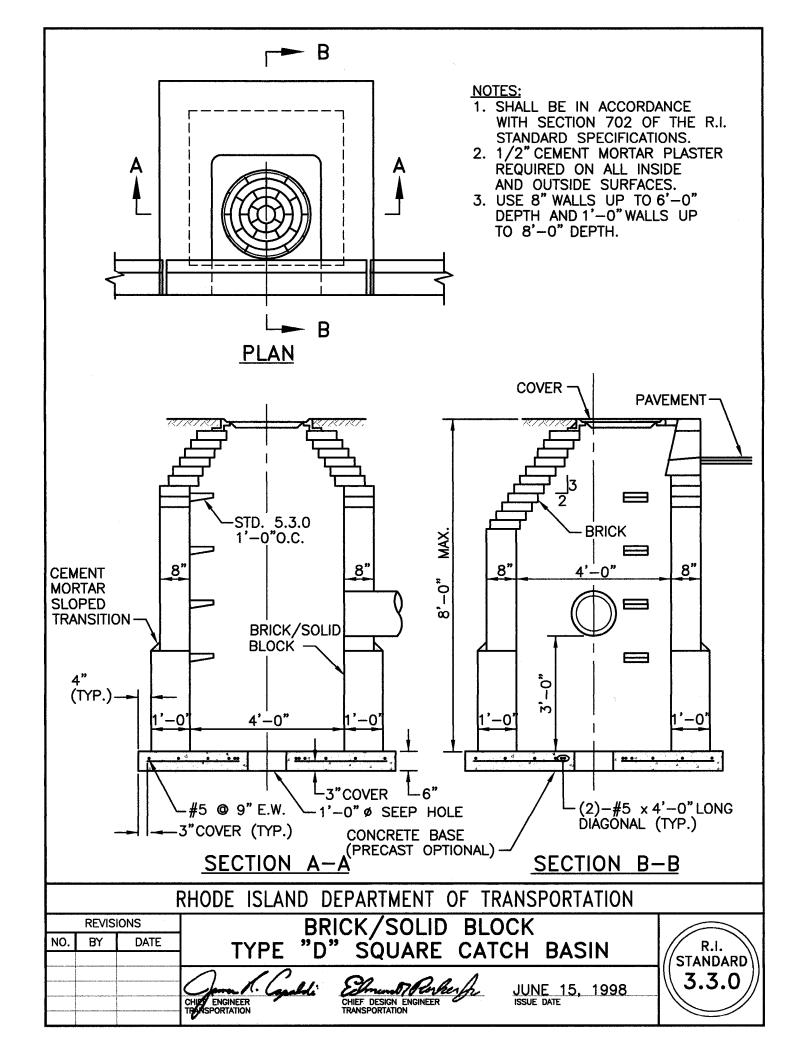
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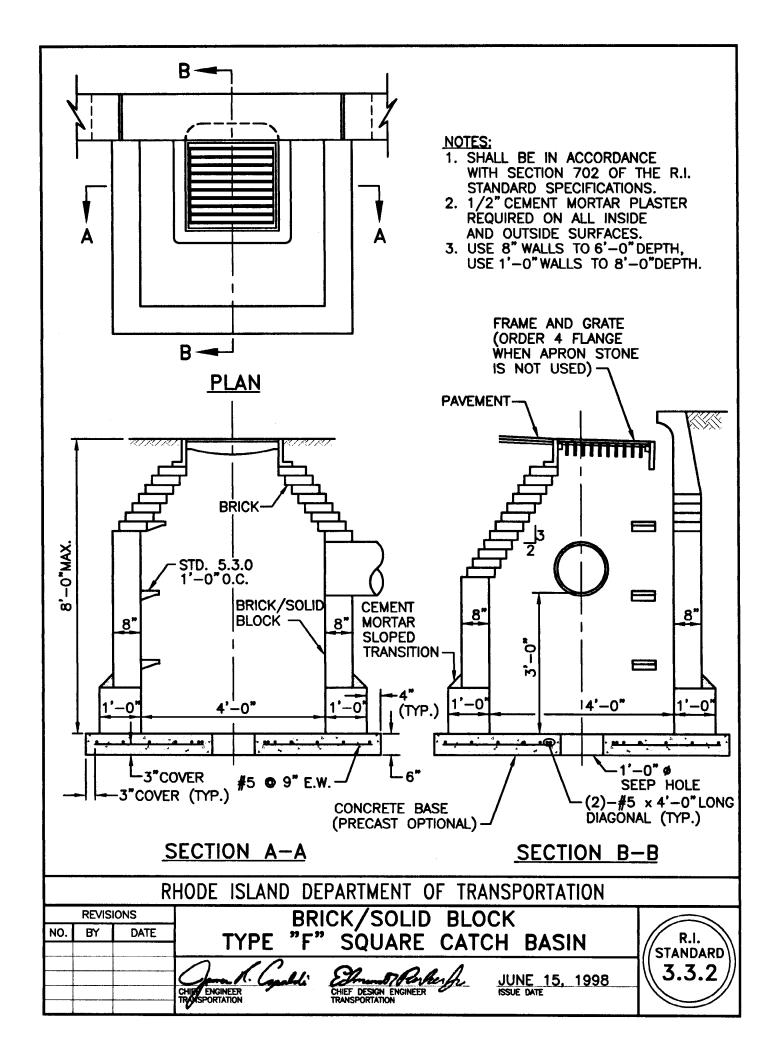
1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

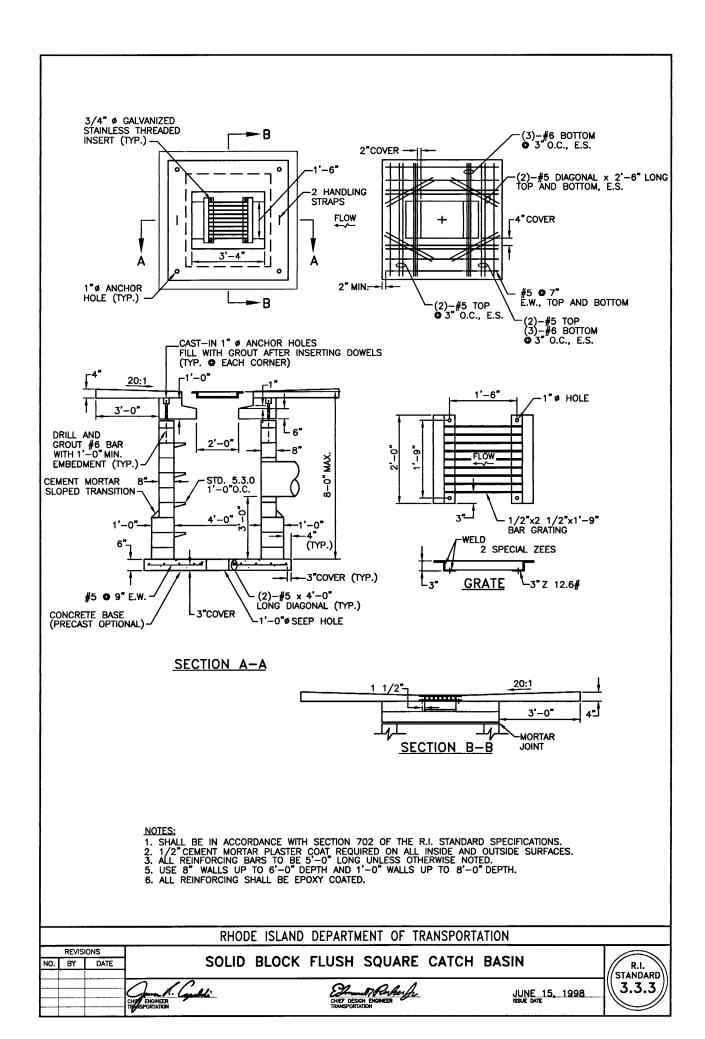
- BRICK/SOLID BLOCK

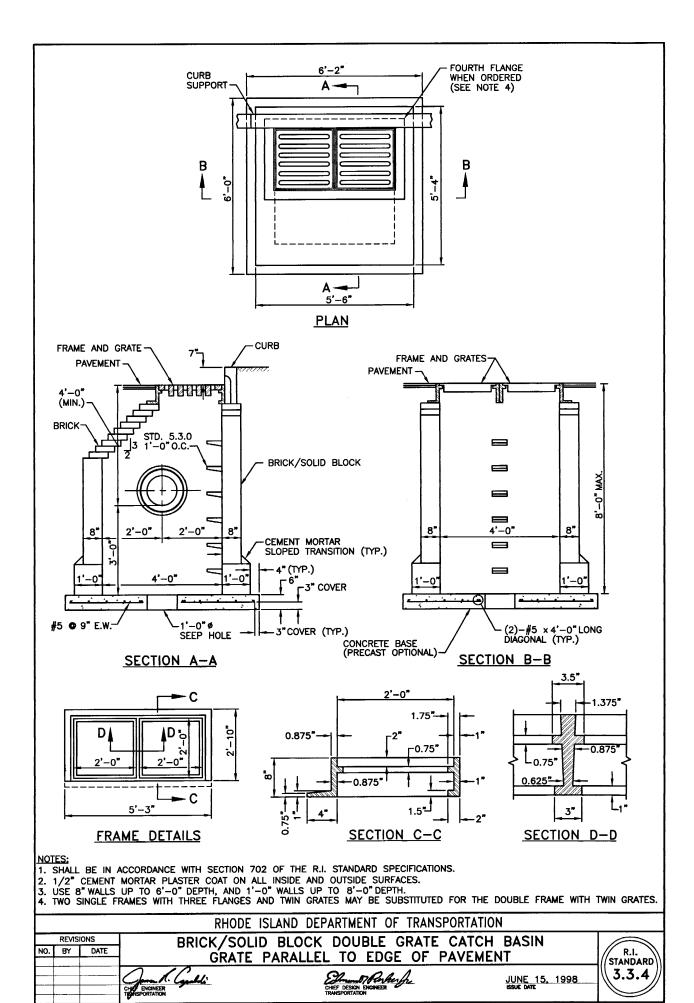
2. 1/2" CEMENT MORTAR PLASTER REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.

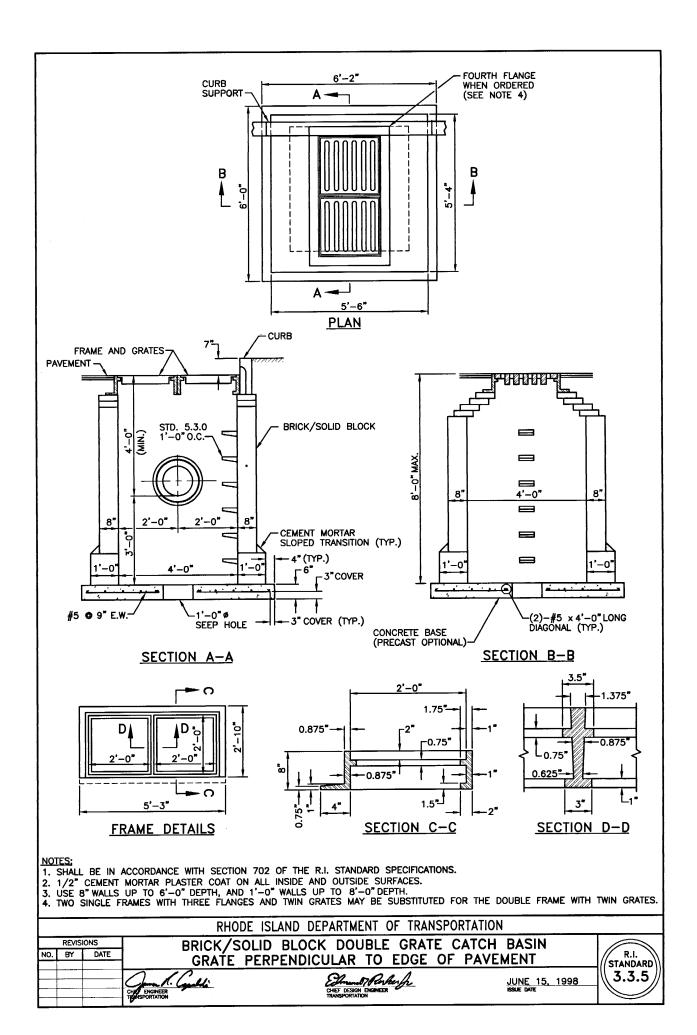
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	BRICK/SOLID BLOCK	
NO.	BY	DATE	DRIVEWAY BASIN AND GUTTER INLET	R.I. STANDARD
			CHIEF DESIGN ENGINEER JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION	3.3.1

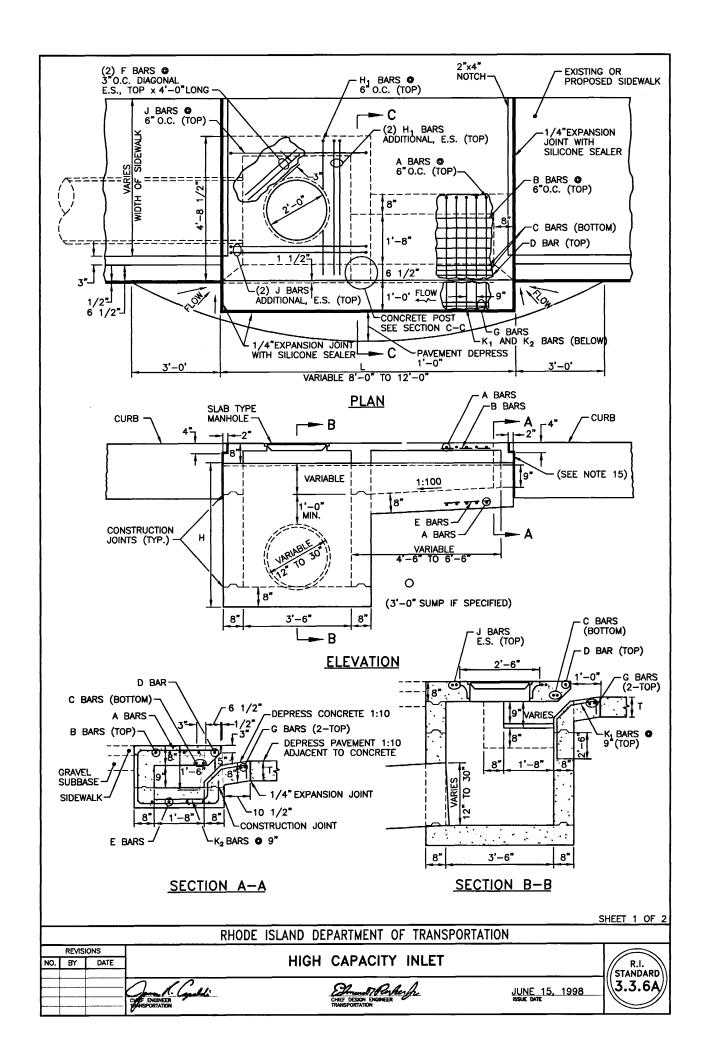


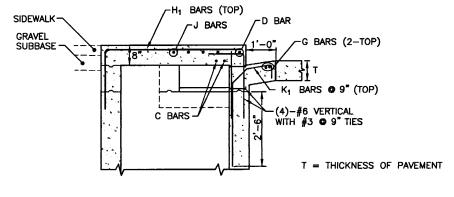




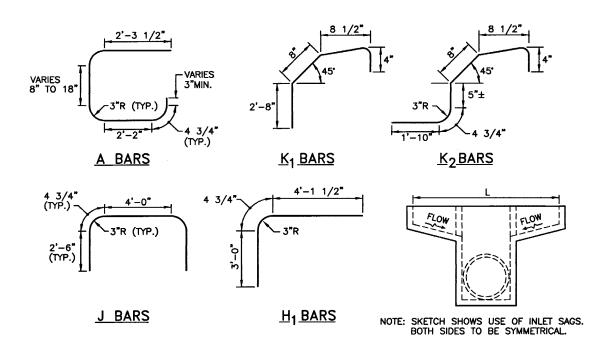








SECTION C-C



NOTES

ES:
SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
1/4" EXPANSION JOINT NOT NECESSARY WHEN FLEXIBLE PAVEMENT IS USED FOR SIDEWALK OR ROADWAY.
THE COVERING FOR ALL REINFORCING STEEL SHALL BE 2", MEASURED FROM THE SURFACE OF THE CONCRETE TO THE
FACE OF THE BAR, UNLESS OTHERWISE SHOWN.
THE HIGH CAPACITY INLET DETAILED HEREIN IS FOR USE ON A GRADE. IF IT IS TO BE USED IN A SAG, (SEE SKETCH
HEREIN), IT SHOULD BE BUILT SYMMETRICALLY ABOUT THE CENTERLINE OF THE PIPE AND LENGTH OF OPENING SPECIFIED.
THE TYPE AND SIZE OF PIPE TO BE USED WITH THIS INLET SHALL BE THE TYPE AND SIZE AS CALLED FOR ON THE PLANS.
TYPICAL "KEYED" CONSTRUCTION JOINTS ARE SHOWN ON THE DETAILS HEREIN. OTHER "KEYED" OR "DOWELED" TYPE
CONSTRUCTION JOINTS MAY BE USED IF ACCEPTABLE TO THE ENGINEER.
THE BEARING AREA OF FRAME AND COVER SHALL BE SO FITTED AND FINISHED AS TO PROVIDE A FIRM AND EVEN SEAT
FOR THE ENTIRE COVER IN THE FRAME WITHOUT ROCKING.

10.

FOR THE ENTIRE COVER IN THE FRAME. NO PROJECTIONS SHALL EXIST ON BEARING AREAS OF EITHER CASTING, AND THE COVER SHALL SEAT IN ITS FRAME WITHOUT ROCKING.

ALL REINFORCING BARS SHALL BE EPOXY COATED.

A SLAB TYPE MANHOLE AND STD. 7.1.0 PRECAST CURB TO BE USED WITH HIGH CAPACITY INLET.

THE BELL OR GROOVE OF CONCRETE PIPE CANNOT BE USED INSIDE THE INLET. IT MUST BE CUT OFF.

ALL EXPOSED EDGES AT CONSTRUCTION JOINTS SHALL BE BEVELED 3/4".

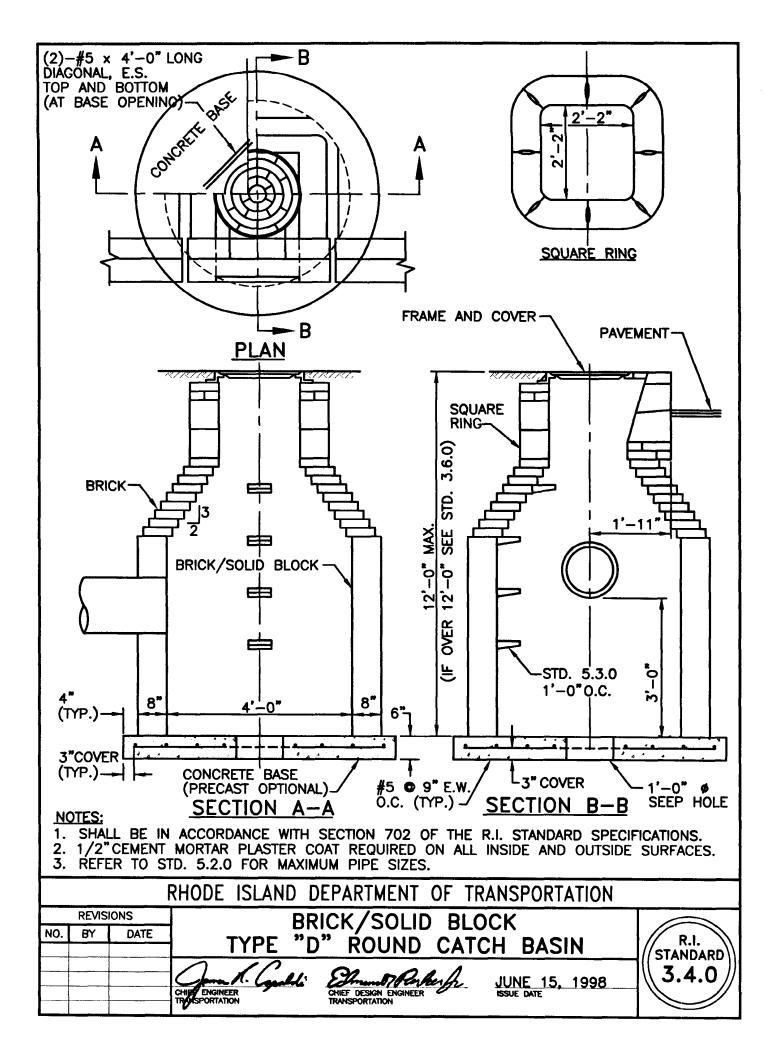
WHEN DEEMED NECESSARY, WEEP HOLES MAY BE INSTALLED IN THE SIDEWALLS OF INLETS DURING CONSTRUCTION TO PROVIDE BASE COURSE DRAINAGE PRIOR TO PLACEMENT OF PAVEMENT. THESE WEEP HOLES SHALL BE LOCATED AT OR BELOW SUBGRADE ELEVATION AS DIRECTED OR APPROVED BY THE ENGINEER TO PROPERLY DRAIN SUBSURFACE MATERIAL. IF HIGH CAPACITY INLET IS TO BE CONSTRUCTED ALONG WITH A SIDEWALK, THE SIDEWALK SHALL BE CONSTRUCTED MONOLITHIC WITH THE TOP SLAB ON THE INLET. THE SIDEWALK SHALL BE REINFORCED WITH WELDED WIRE MESH 6X6—W2.9xW2.9 PLACED 2" BELOW SURFACE OF SIDEWALK AND EXTENDED INTO THE TOP SLAB OF THE INLET A MINIMUM DISTANCE OF 8".

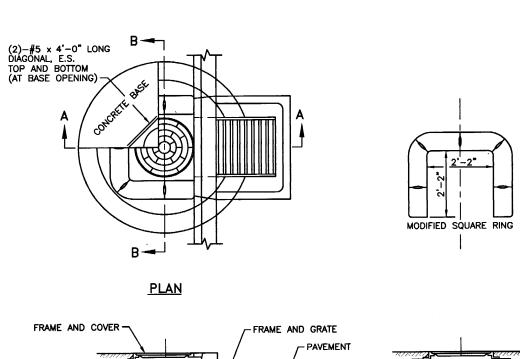
BAR SIZES — B BARS. C BARS. D BARS. E BARS. F BARS. G BARS K4 BARS AND K6 BARS APP ALL TO BE 45 BARS.

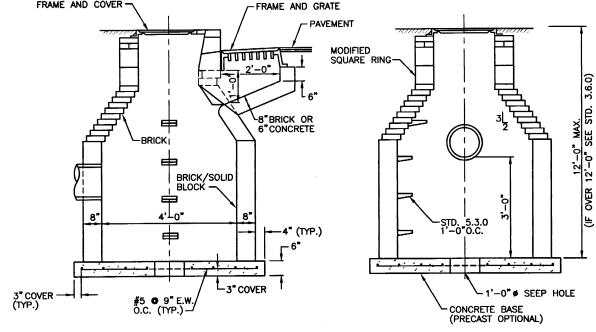
BAR SIZES - B BARS, C BARS, D BARS, E BARS, F BARS, G BARS K₁ BARS AND K₂ BARS ARE ALL TO BE #5 BARS. H₁ BARS AND J BARS ARE ALL TO BE #6 BARS. A BARS ARE TO BE #7 BARS. THE COST TO NOTCH THE CURB SHALL BE CONSIDERED INCIDENTAL TO THE COST OF THE CURBING.

SHEET 2 OF 2

RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS HIGH CAPACITY INLET NO. BY DATE R.I. STANDARD 3.3.6B CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998





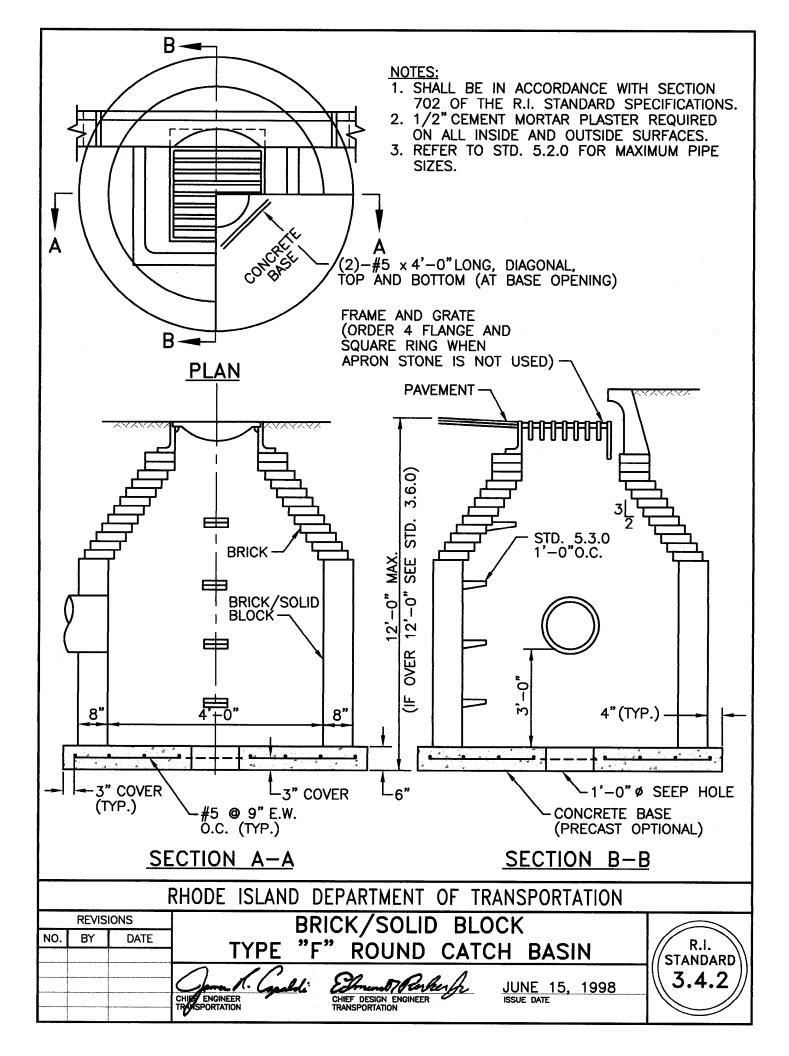


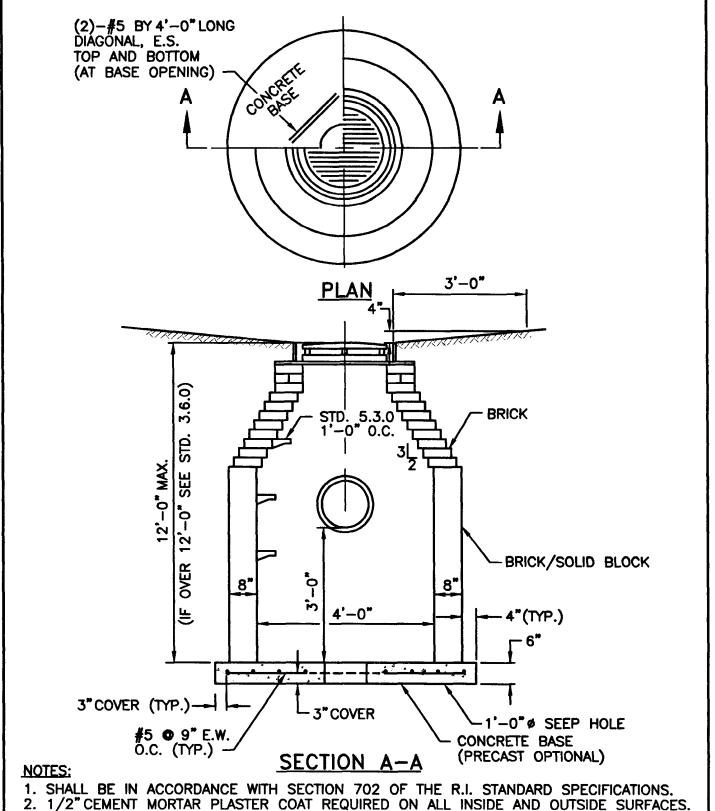
SECTION A-A

SECTION B-B

- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.
 3. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

	RH	ODE ISLAND DEPA	ARTMENT OF TRANS	PORTATION		
REVISIONS NO. BY DATE	BRICK/SOLID	BLOCK ROUND	CATCH BASIN	WITH GUTTER	INLET	R.I. STANDARD
	CHU ENGINEER THANSPORTATION	CH TR	Her DESIGN ENGINEER ANSPORTATION	JUNE 1:	5, 1998	3.4.1

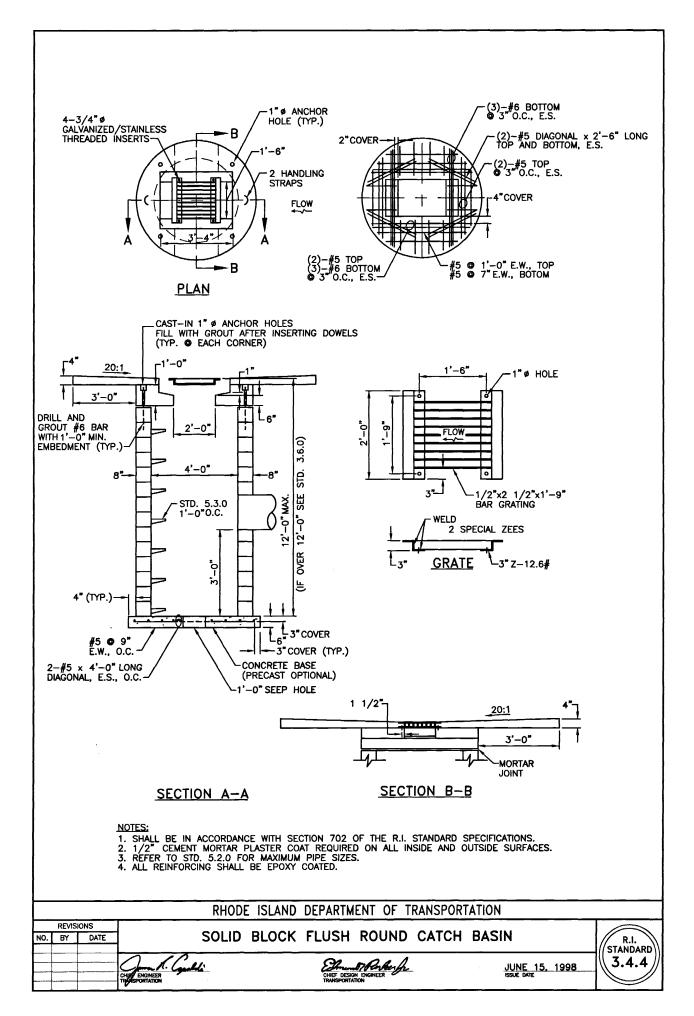


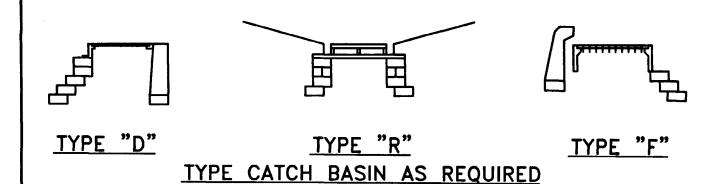


3. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

	REVISI	ONS	BRICK/SOLID BLOCK	
NO.	BY	DATE	TYPE "R" CATCH BASIN	R.I. STANDARD
			CHIL ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION	3.4.3





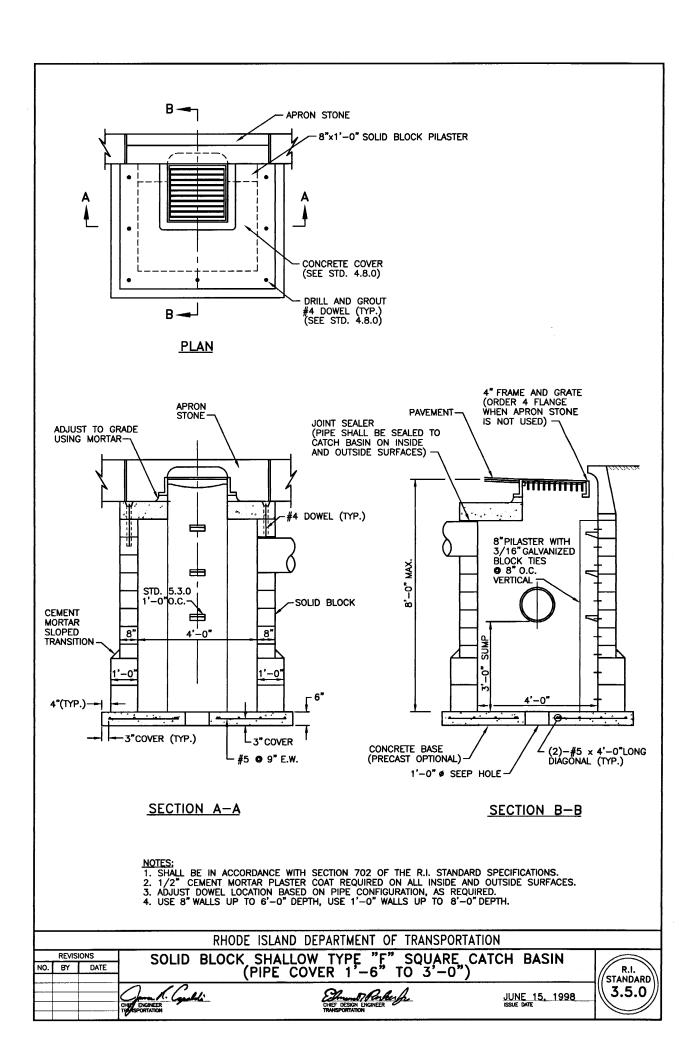
- (TOP OF FRAME AND GRATE/COVER) 3.6.0) **BRICK** STD. STD. 5.3.0 1'-0" O.C. 12'-0" MAX. OVER 12'-0" SEE PIPE BRICK/SOLID BLOCK 10 5'-0" OR 6'-0" Ø 4"(TYP.) 3"COVER (TYP.)-L3*COVER #5 **○** 7" E.W. CONCRETE BASE Ö.C. (TYP.) (PRECAST OPTIONAL) (2)-#5 x 4'-0" LONG DIAGONAL, E.S., O.C. — -1'-0"ø SEEP HOLE

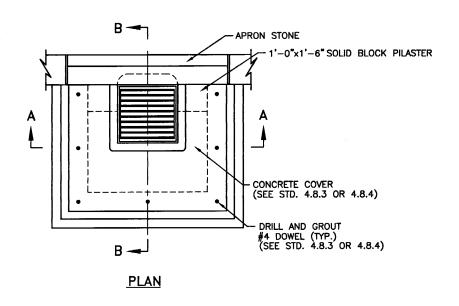
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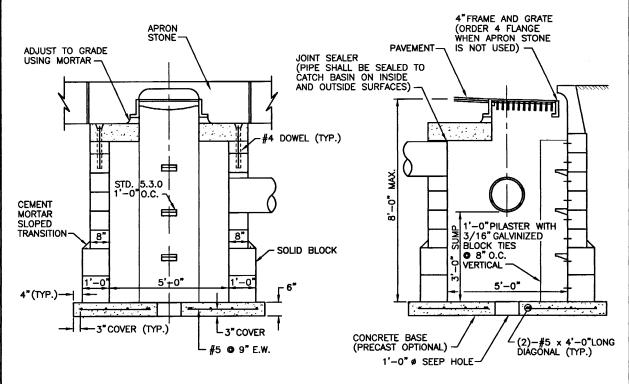
- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.

3. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY DATE	BRICK/SOLID BLOCK 5'-0" OR 6'-0" ROUND CATCH BASIN	R.I. STANDARD
	CHIEF ENGINEER THORSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE	3.4.5







SECTION A-A

SECTION B-B

STANDARD 3.5.1

- NOTES:

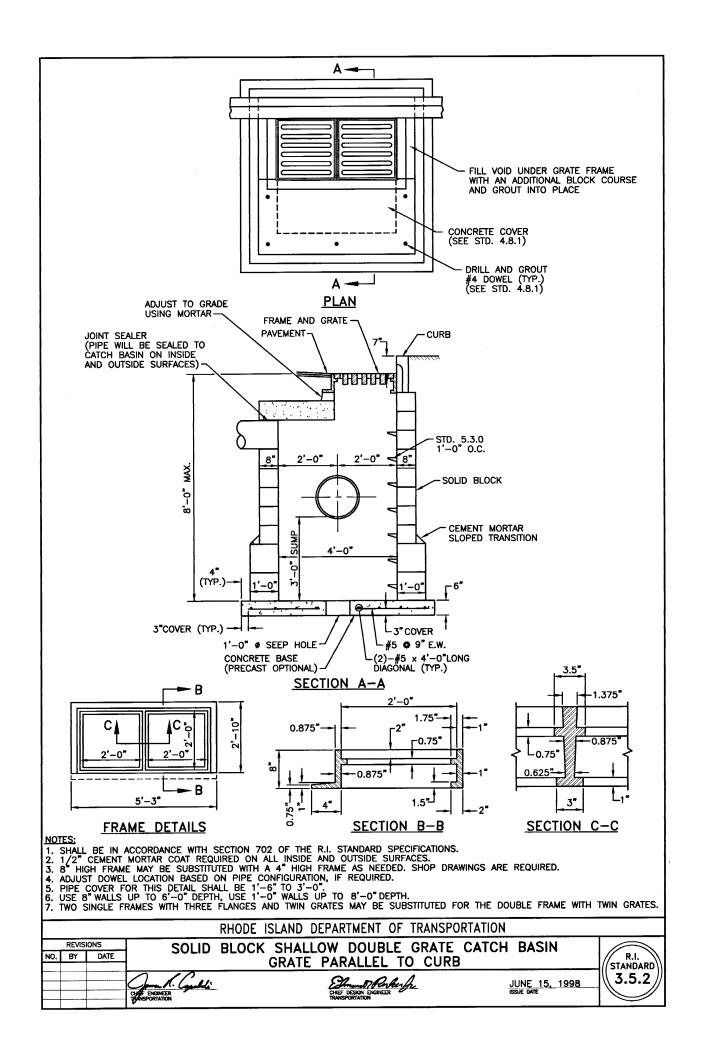
 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

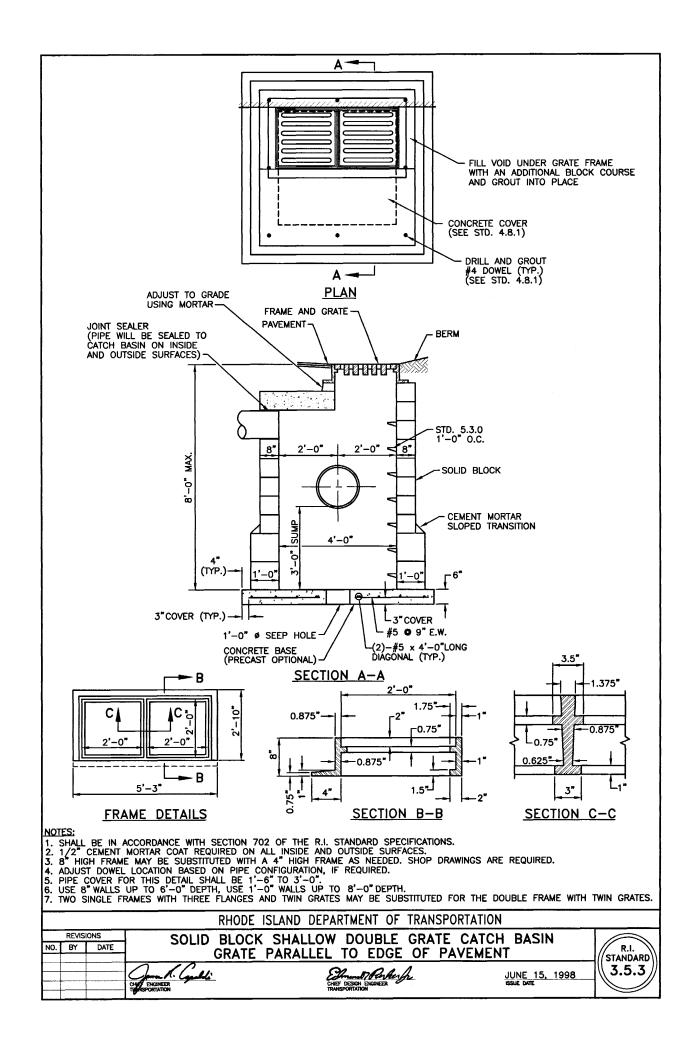
 2. 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.

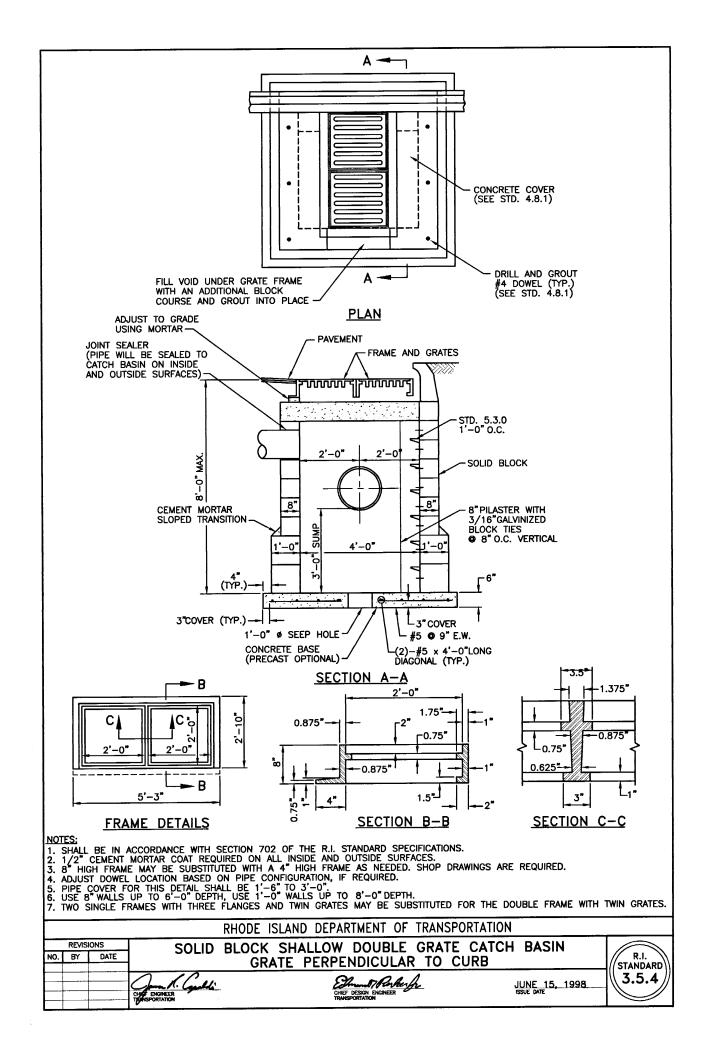
 3. ADJUST DOWEL LOCATION BASED ON PIPE CONFIGURATION, AS REQUIRED.

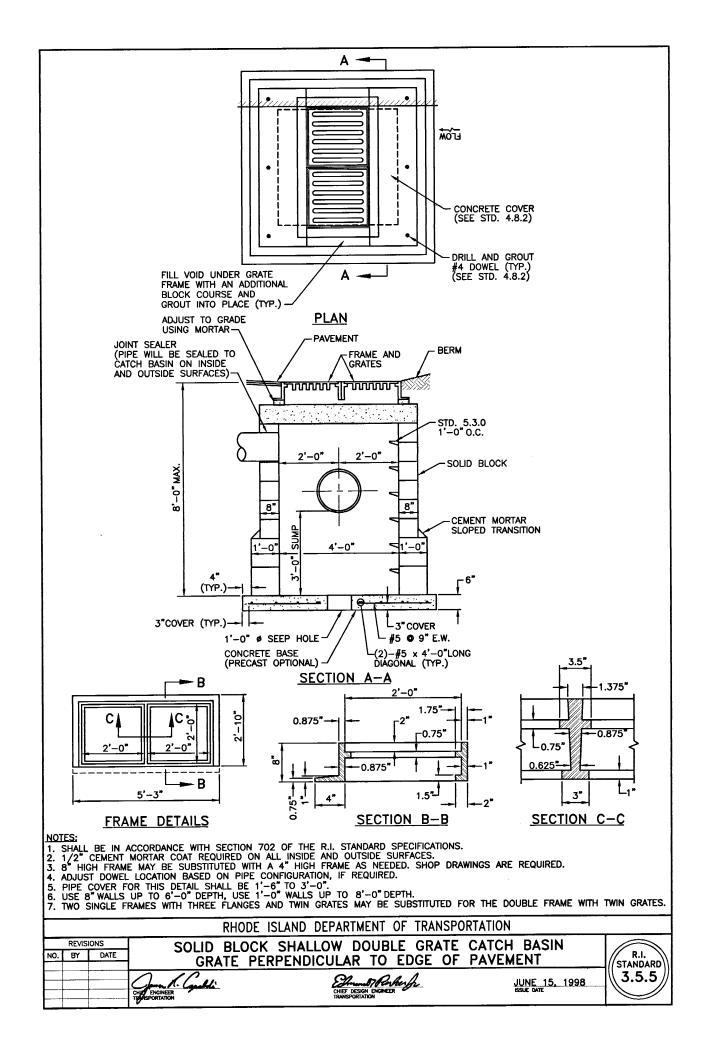
 4. USE 8" WALLS UP TO 6'-0" DEPTH, USE 1'-0" WALLS UP TO 8'-0" DEPTH.

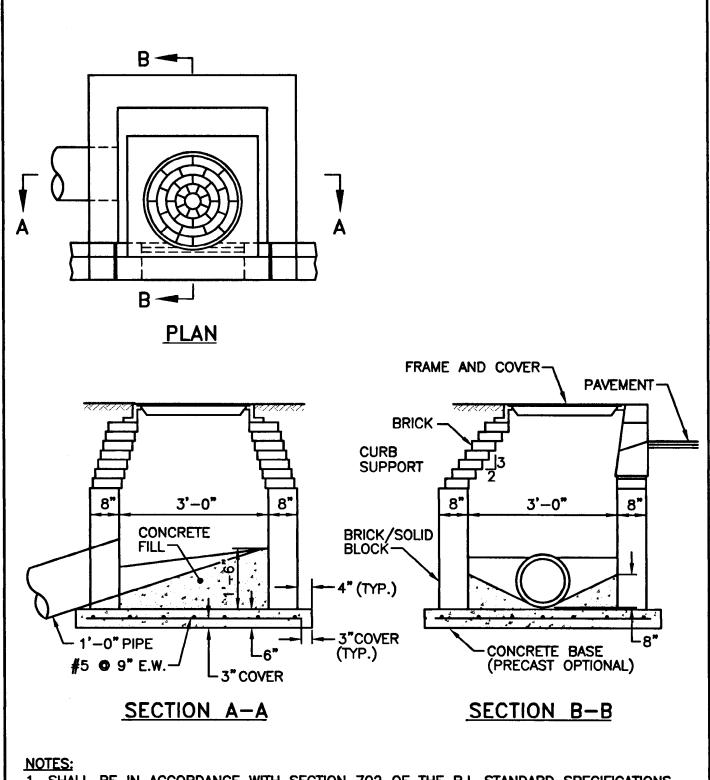
RHODE ISLAND DEPARTMENT OF TRANSPORTATION				
REVISIONS NO. BY DATE	SOLID BLOCK	SHALLOW 5'-0" OR 6'-0" SQUARE (PIPE COVER 1'-6" TO 3'-0")	CATCH	BASIN
	CHUZ ENCINEER TIBASPORTATION	CHESION ENGINEER THANSPORTATION	JUNE 15,	1998





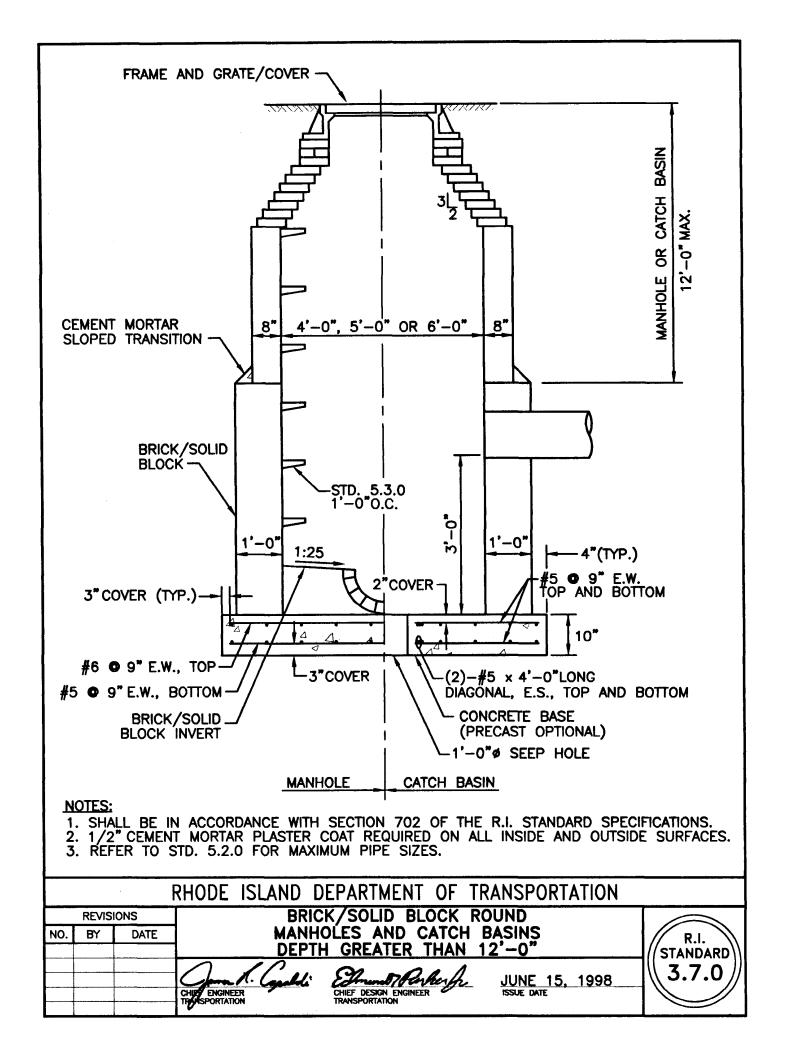


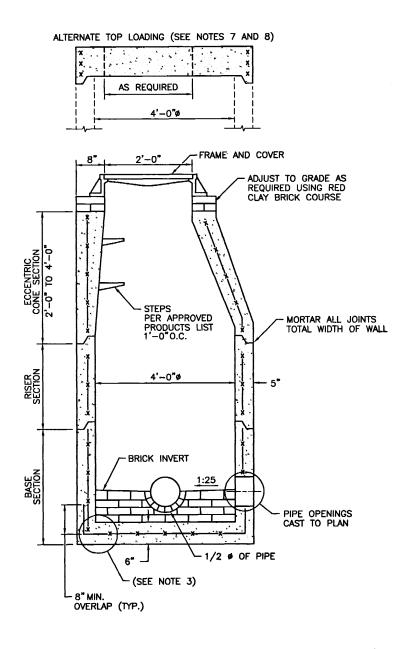




- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. 1/2" CEMENT MORTAR PLASTER COAT REQUIRED ON ALL INSIDE AND OUTSIDE SURFACES.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI		BRICK/SOLID BLOCK DROP INLET	
NO.	NO. BY D		BRICK/ SOLID BLOCK DROP INLET	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	3.6.0
			CHIEF ENGINEER TANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION ISSUE DATE	





NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.12 SQ. IN. / LIN. FT. MINIMUM.

3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN/LIN. FT. (BOTH WAYS).

4. ONE POUR MONOLITHIC BASE SECTION.

5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.

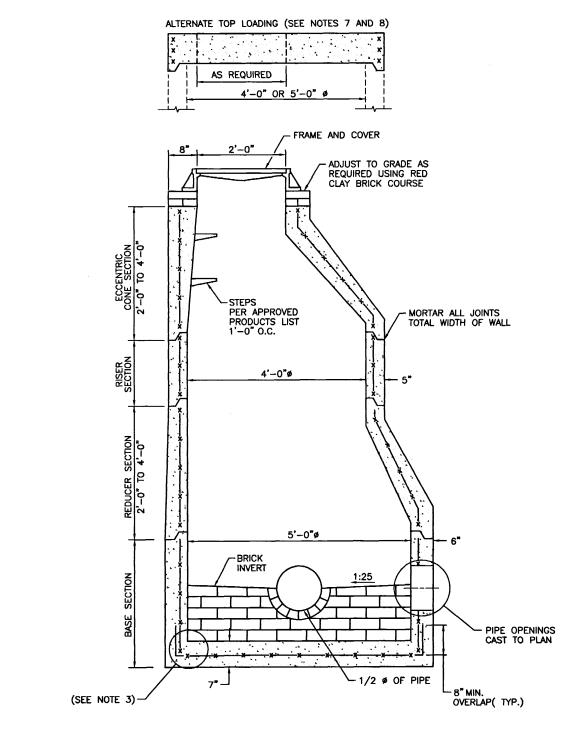
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.

7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H-25 LOADING (SEE STD. 4.7.2).

8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.

9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

	RHODE ISL	LAND DEPARTMENT OF TRANSPO	RTATION
REVISIONS NO. BY DATE	PREC	AST 4'-0" ROUND MANHO	DLE R.I. STANDARD
	CHE ENGINEER CHARLES	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 4.2.0



- NOTES:

 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

 2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LIN. FT. MINIMUM.

 3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).

 4. ONE POUR MONOLITHIC BASE SECTION.

 5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW—CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.

 6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.

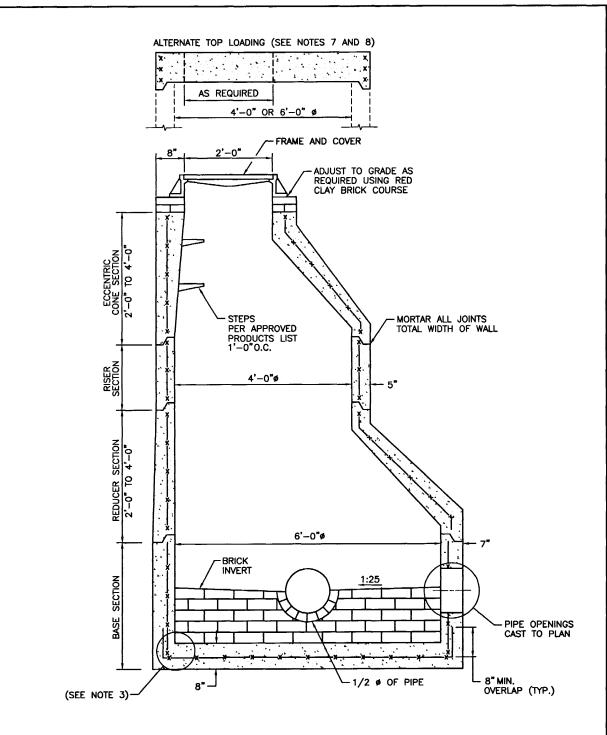
 7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H—25 LOADING (SEE STD. 4.7.0).

 8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.

 9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS PRECAST 5'-0" ROUND MANHOLE R.I. STANDARD NO. BY DATE 4.2.1 57 Boker fr JUNE 15, 1998



NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

2. CIRCUMFERENTIAL STEEL REINFORCEMENT REQUIRED = 0.15 SQ. IN./LIN. FT. MINIMUM.

3. STEEL REINFORCEMENT FOR BASE SECTION BOTTOM SHALL BE A MINIMUM OF 0.12 SQ. IN./LIN. FT. (BOTH WAYS).

4. ONE POUR MONOLITHIC BASE SECTION.

5. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW—CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.

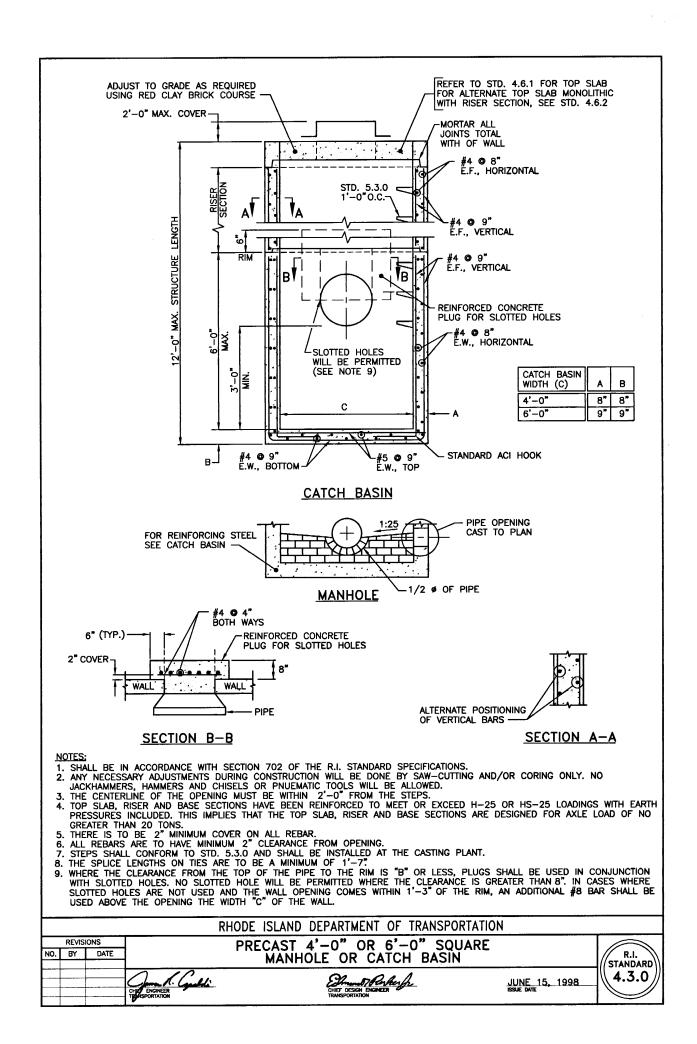
6. STEPS SHALL CONFORM TO STD. 5.3.0 AND SHALL BE INSTALLED AT THE CASTING PLANT.

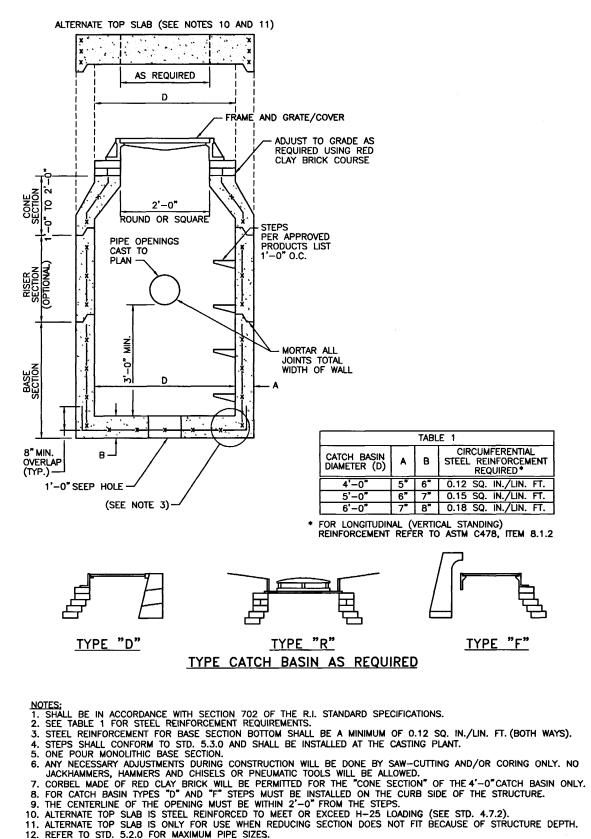
7. ALTERNATE TOP SLAB IS STEEL REINFORCED TO MEET OR EXCEED H—25 LOADING (SEE STD. 4.7.2).

8. ALTERNATE TOP SLAB IS ONLY FOR USE WHEN REDUCING SECTION DOES NOT FIT BECAUSE OF STRUCTURE DEPTH.

9. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

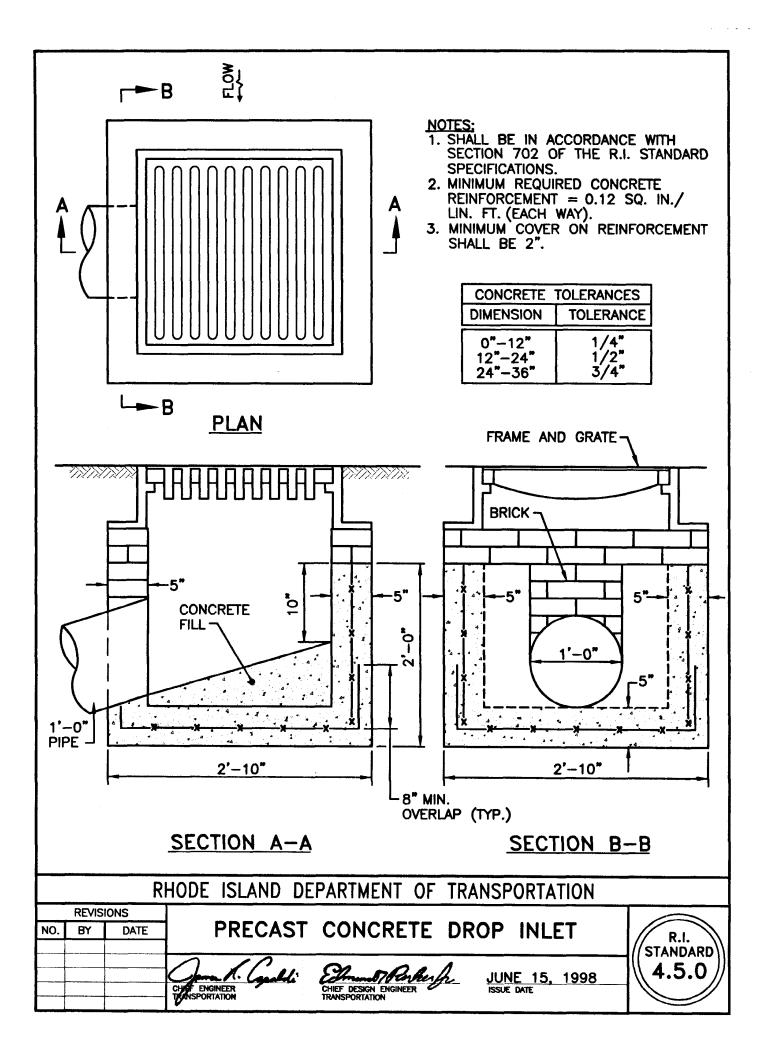
RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS PRECAST 6'-0" ROUND MANHOLE R.I. STANDARD NO. BY DATE CHIEF DESIGN ENGINEER TRANSPORTATION 4.2.2 JUNE 15, 1998

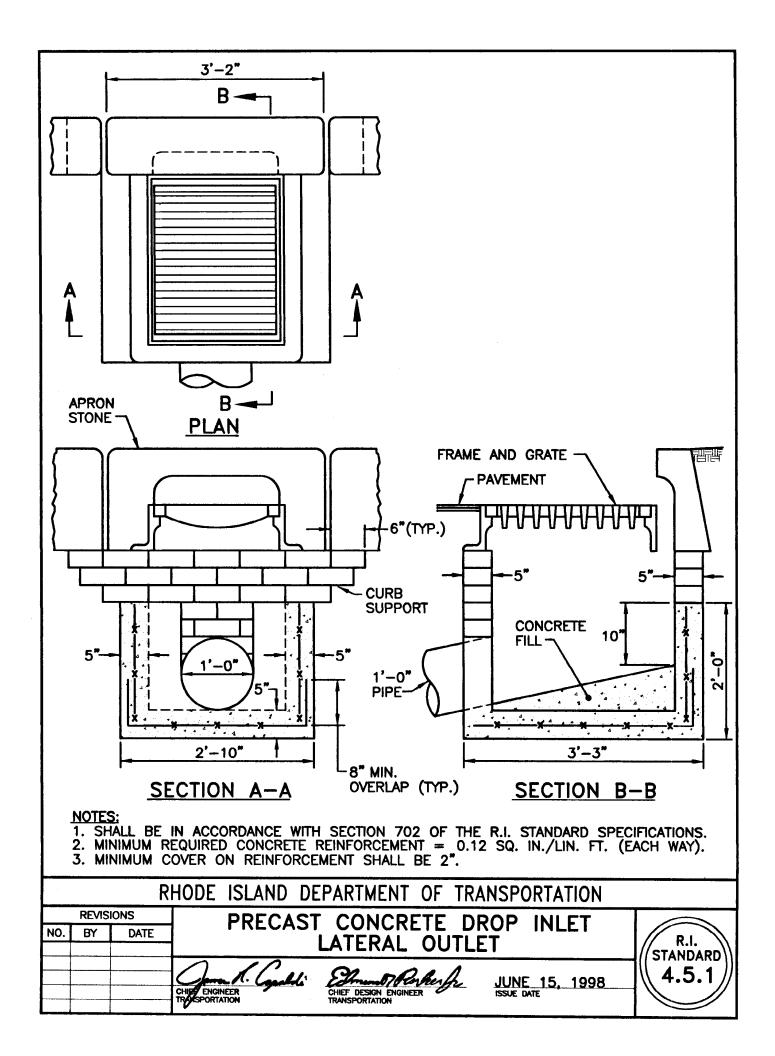


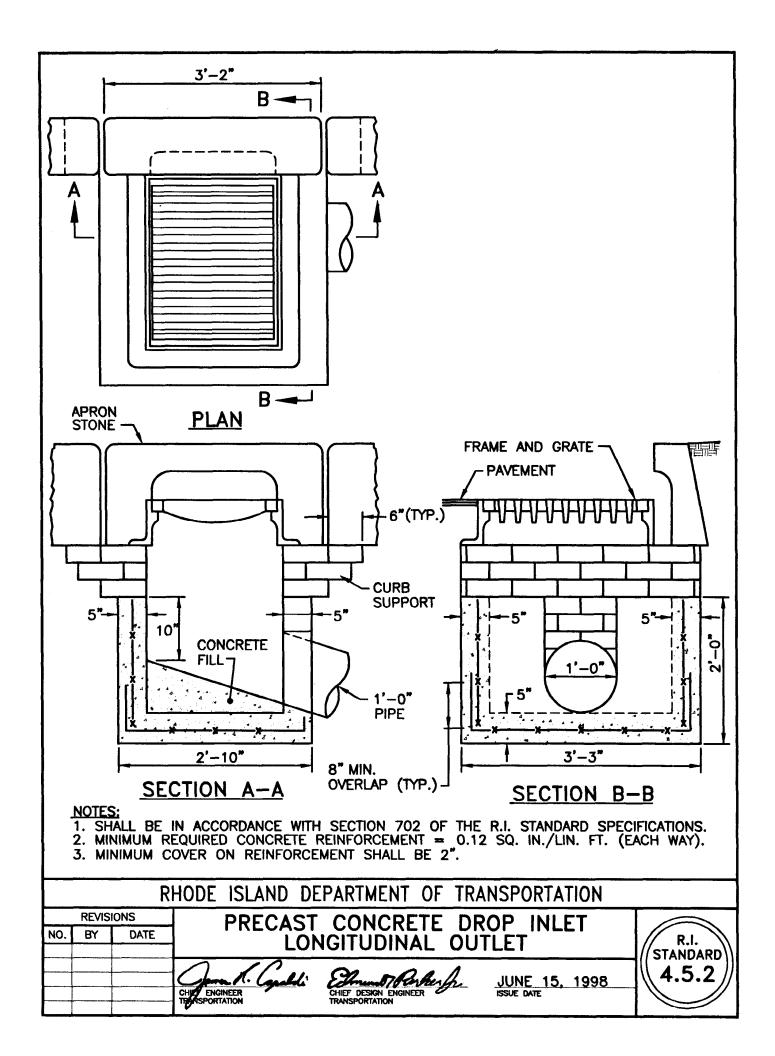


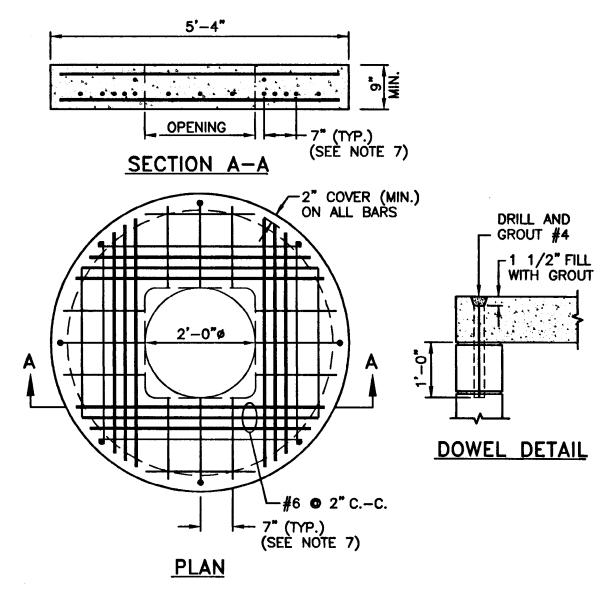
- 12. REFER TO STD. 5.2.0 FOR MAXIMUM PIPE SIZES.

	R	HODE ISLAND DEPARTMENT OF TRANSPOR	TATION	
REVISIONS NO. BY DATE	PRECAST	4'-0", 5'-0", OR 6'-0" ROUND	CATCH BASIN	R.I. STANDARD
	CHIEF ENGINEER THATSPORTATION	CHIPPERSON ENGINEER THANGPORTATION	JUNE 15, 1998 ISSUE DATE	4.4.0



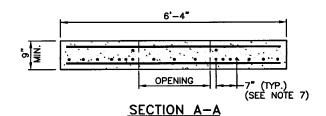


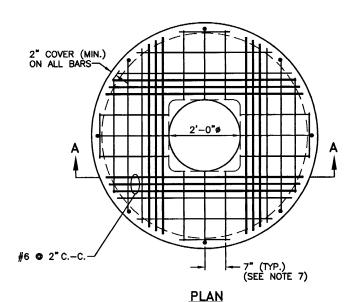


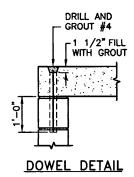


- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
- 3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
 4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
- 5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
- 6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.
- 7. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 7", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE REBARS SHALL BE #6 (SHOWN WITH HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #6 BARS PLACED ADJACENT TO THE OPENING, BOTH WAYS, WITH 2" MINIMUM COVER."

	REVISI	ONS	CONCRETE COVER FOR SHALLOW	
NO.	BY	DATE	4'-0" ROUND MANHOLES	R.I.
ļ			4 -U ROUND MANHOLES	//STANDARD\\
			CHIEF ENGINEER CHIEF DESIGN FINGINFER ISSIE DATE	∖∖ 4.6.0 //
			CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	
			TRANSPORTATION TRANSPORTATION	







- NOTES:

 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

 2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.

 3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.

 4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.

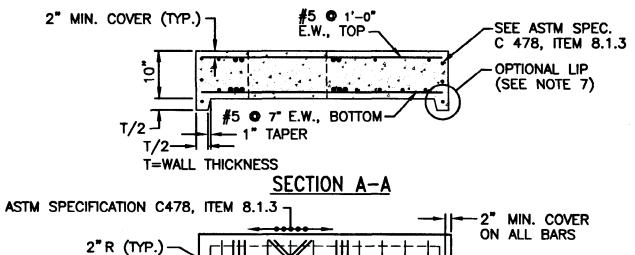
 5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.

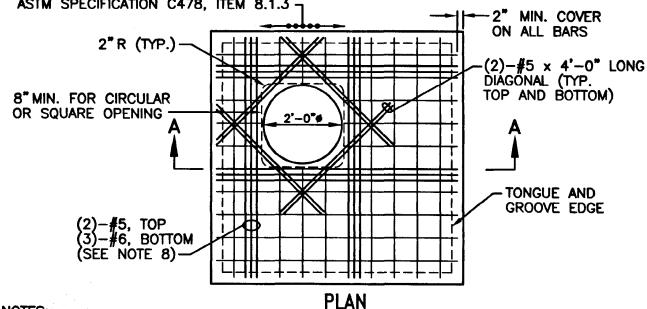
 6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.

 7. ALL REBARS IN THE BOTTOM MAT ARE #5 © 7", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE REBARS SHALL BE #6 (SHOWN WITH HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #6 BARS PLACED ADJACENT TO THE OPENING, BOTH WAYS, WITH 2" MINIMUM COVER.

RHODE ISLAND DEPARTMENT OF TRANSPOR	RIAHON
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NO.	REVISIONS BY DAT	CONCRETE	COVER FOR	R SHALLOW	5'-0"	ROUND	MANHOLES	R.I. STANDARD
		CHIEF ENGINEER THE SPORTATION		CHIEF DESIGN ENGINEER TRANSPORTATION	ber fr		JUNE 15, 1998	4.6.1

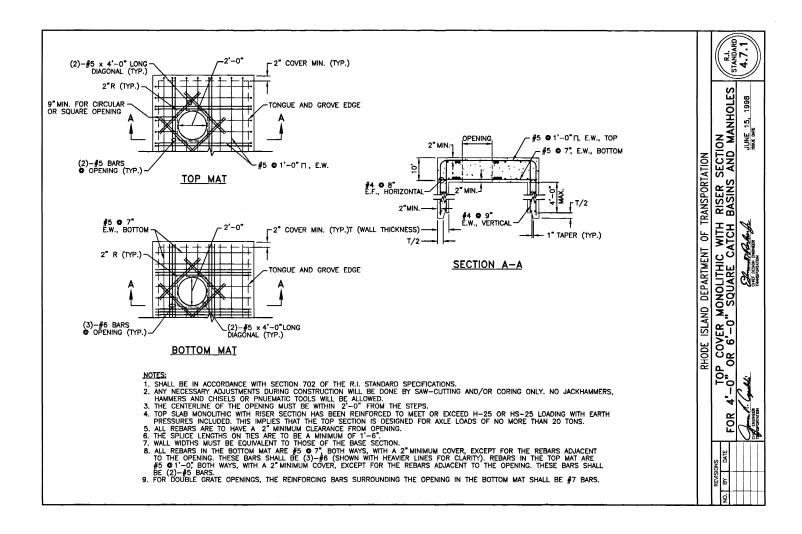


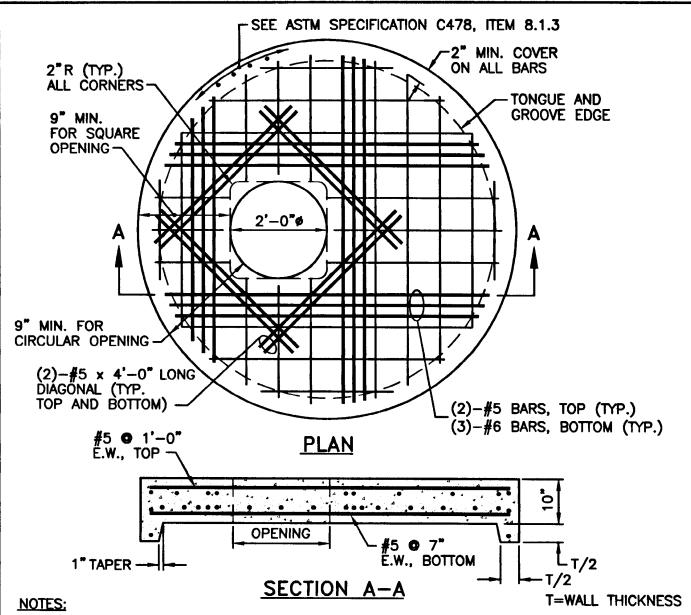


- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THIS TOP COVER IS FOR STD. 4.3.0.
- 3. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNUEMATIC TOOLS WILL BE ALLOWED.
- 4. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
- 5. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
- 6. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARANCE FROM OPENING.
- 7. WHERE NO LIP IS PROVIDED, THE ASTM SPECIFICATION REFERENCE SHALL BE IGNORED. IN ALL CASES, THE CONTACT SURFACES SHALL MATCH.
- 8. ALL REBARS IN THE BOTTOM MAT ARE #5 @ 7" BOTH WAYS WITH 2" MINIMUM COVER, EXCEPT FOR BARE ADJACENT TO THE OPENING. THESE BARS SHALL BE (3)-#6 (SHOWN WITH HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #5 1'-0" BOTH WAYS WITH 2" MINIMUM COVER, EXCEPT FOR BARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (2)-#5 BARS.

 9. FOR DOUBLE GRATE OPENINGS, THE REBARS SURROUNDING THE OPENING IN THE BOTTOM
- MAT SHALL BE #7 BARS.

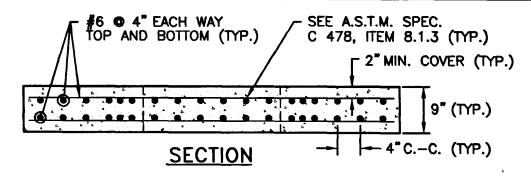
	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY DATE	TOP COVER FOR 4'-0" OR 6'-0" SQUARE CATCH BASINS AND MANHOLES	R.I. STANDARD
	CHIEF DESIGN ENGINEER THANSPORTATION JUNE 15, 1998 ISSUE DATE	4.7.0

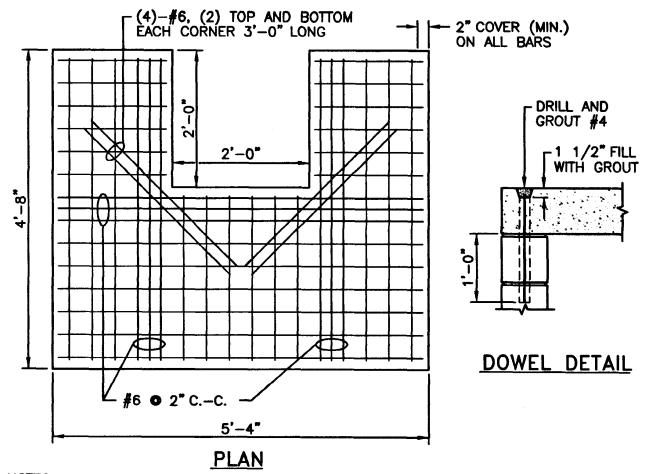




- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. ANY NECESSARY ADJUSTMENTS DURING CONSTRUCTION WILL BE DONE BY SAW-CUTTING AND/OR CORING ONLY. NO JACKHAMMERS, HAMMERS AND CHISELS OR PNEUMATIC TOOLS WILL BE ALLOWED.
- 3. THE CENTER LINE OF THE OPENING MUST BE WITHIN 2" FROM THE STEPS.
- 4. ALTERNATE TOP COVER IS STEEL REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
- 5. ALL REBAR SHALL HAVE A MINIMUM OF 2" CLEARANCE FROM OPENING.
- 6. ALL REBARS IN THE BOTTOM MAT ARE #5 © 2", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (3)—#6 SHOWN WITH A HEAVIER LINE FOR CLARITY). REBARS IN THE TOP MAT ARE #5 © 1'-0", BOTH WAYS, WITH 2" MINIMUM COVER, EXCEPT FOR REBARS ADJACENT TO THE OPENING. THESE BARS SHALL BE (2)—#5 BARS.

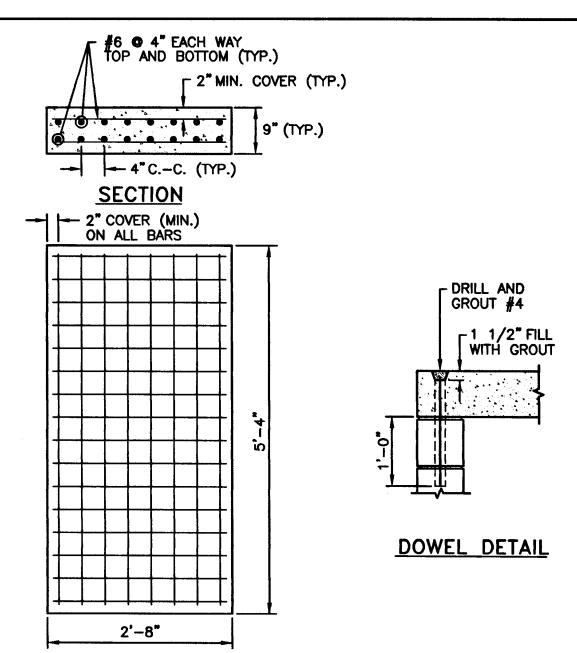
NO. BY DATE	ALTERNATE PRECAST MA	TOP COVER NHOLES AND	FOR ROUND CATCH BASINS	R.I. STANDARD
	CHIP ENGINEER THEASPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	4.7.2





- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
- 3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
- 4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
 5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
- 6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS	ONS DATE	CONCRETE COVER FOR SHALLOW	
		DAIL	TYPE "F" SQUARE CATCH BASINS	R.I. STANDARD
			CHIEF DESIGNEER SURE 15, 1998 CHIEF DESIGNEER BISHER SSUE DATE	∬ 4.8.0 <i>∥</i>
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

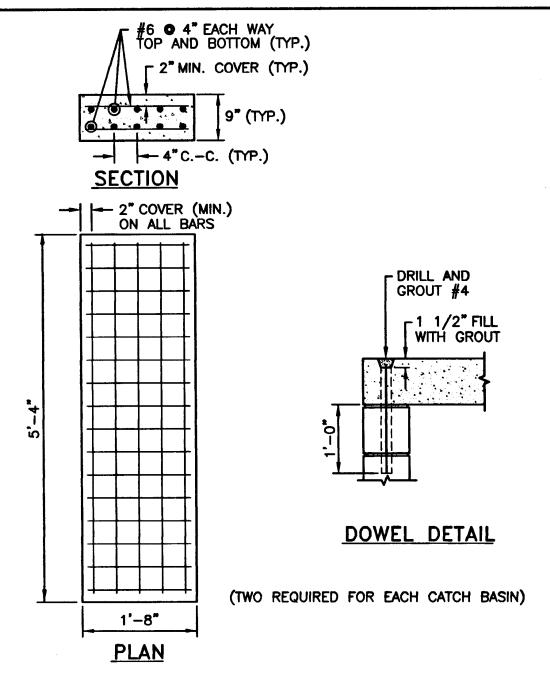


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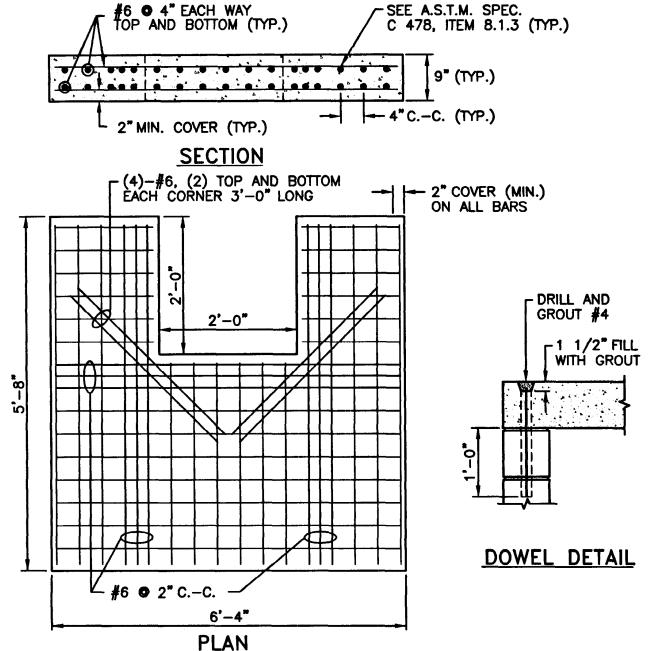
- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
- 3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
- 4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
- 5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
- 6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION **REVISIONS** CONCRETE COVER FOR SHALLOW DOUBLE NO. DATE BY GRATE CATCH BASINS WITH CURB R.I. STANDARD' 4.8.1 CHIEF DESIGN ENGINEER JUNE 15, 1998 ISSUE DATE CHIEF ENGINEER TRANSPORTATION TRANSPORTATION



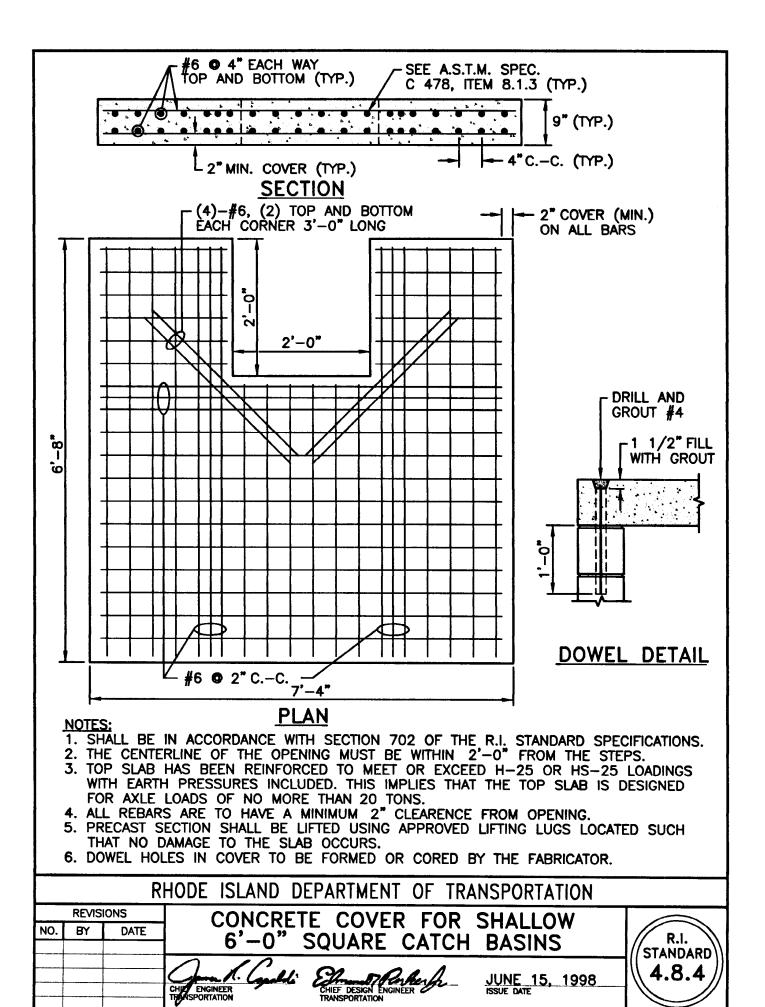
- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
- 3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS OF NO MORE THAN 20 TONS.
 4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARANCE FROM OPENING.
- 5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
- 6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.

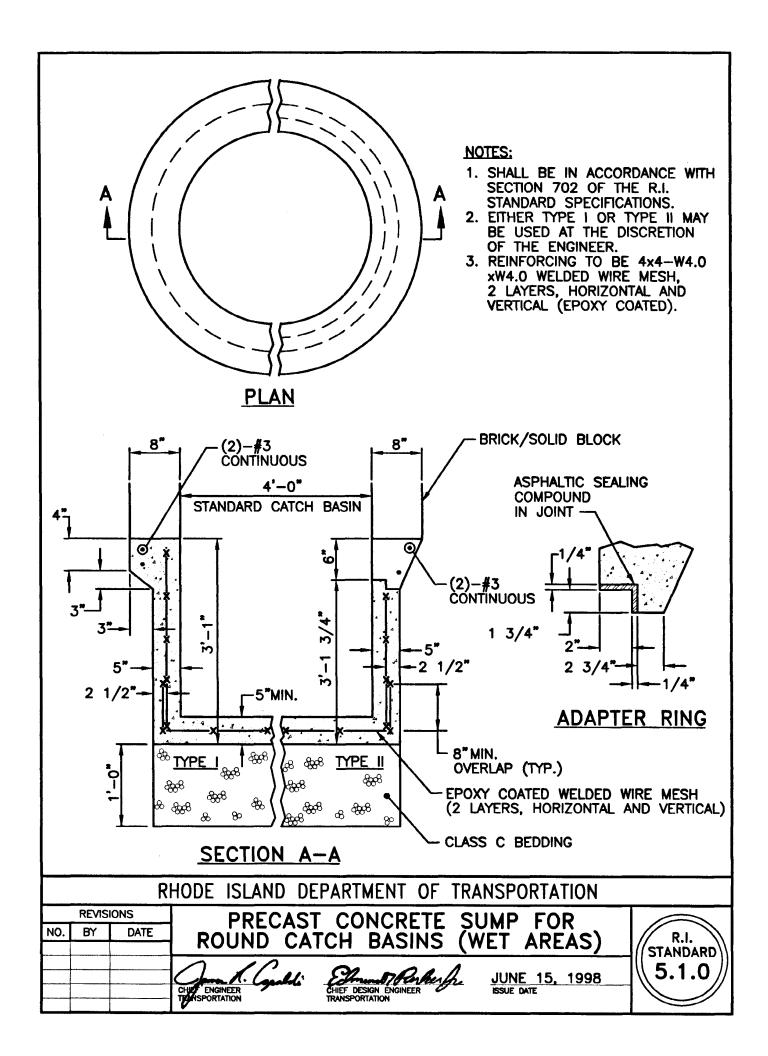
R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS NO. BY DATE	CONCRETE COVER FOR SHALLOW DOUBLE GRATE CATCH BASINS WITHOUT CURB	R.I.
	CHIEF ENGINEER THAN THE PROPERTY JUNE 15, 1998 CHIEF ENGINEER THAN SPORTATION TRANSPORTATION TRANSPORTATION	4.8.2

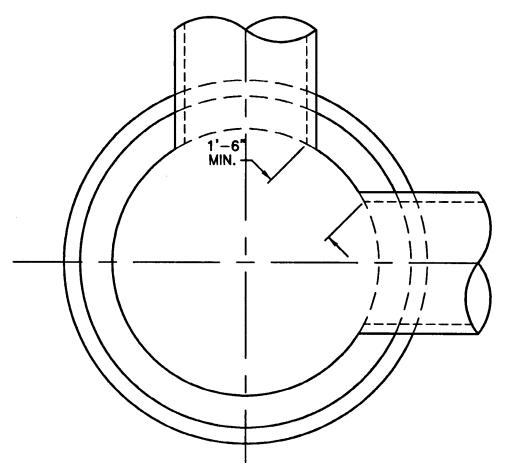


- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE CENTERLINE OF THE OPENING MUST BE WITHIN 2'-0" FROM THE STEPS.
- 3. TOP SLAB HAS BEEN REINFORCED TO MEET OR EXCEED H-25 OR HS-25 LOADINGS WITH EARTH PRESSURES INCLUDED. THIS IMPLIES THAT THE TOP SLAB IS DESIGNED FOR AXLE LOADS NO GREATER THAN 20 TONS.
- 4. ALL REBARS ARE TO HAVE A MINIMUM 2" CLEARENCE FROM OPENING.
 5. PRECAST SECTION SHALL BE LIFTED USING APPROVED LIFTING LUGS LOCATED SUCH THAT NO DAMAGE TO THE SLAB OCCURS.
- 6. DOWEL HOLES IN COVER TO BE FORMED OR CORED BY THE FABRICATOR.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION **REVISIONS** CONCRETE COVER FOR SHALLOW NO. BY DATE 5'-0" SQUARE CATCH BASINS R.I. STANDARD' 4.8.3 CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE CHIEF ENGINEER







CROSS SECTION OF MANHOLE OR CATCH BASIN

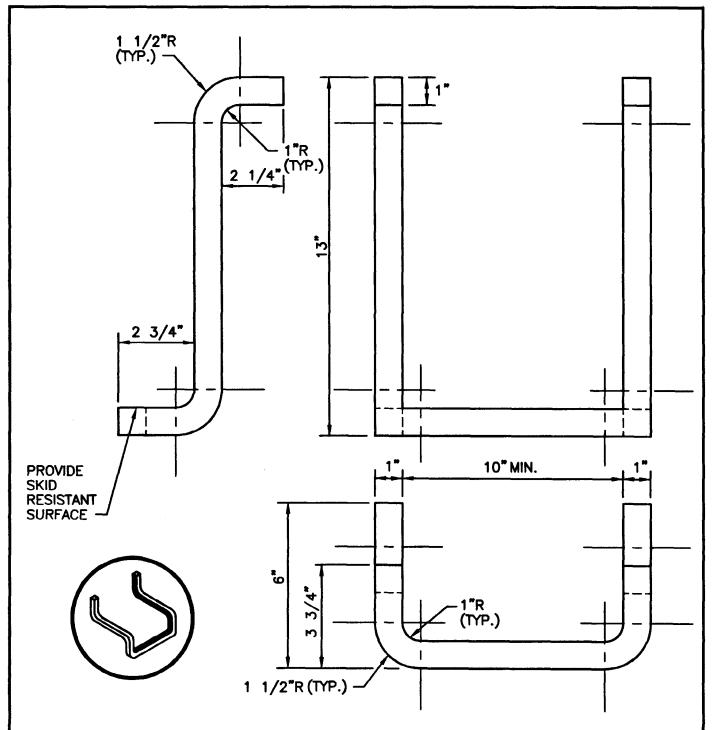
	4 FT. MANHOLE	5 FT. MANHOLE	6 FT. MANHOLE
	OR CATCH BASIN	OR CATCH BASIN	OR CATCH BASIN
MAX. PIPE O.D. STRAIGHT THRU TO 45° DEFLECTION	33 1/2" O.D. 27" R.C. PIPE	44" O.D. 36" R.C. PIPE	51" O.D. 42" R.C. PIPE
MAX. PIPE O.D.	23" O.D.	33 1/2" O.D.	37" O.D.
90° DEFLECTION	18" R.C. PIPE	27" R.C. PIPE	30" R.C. PIPE

NOTE:

- 1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.

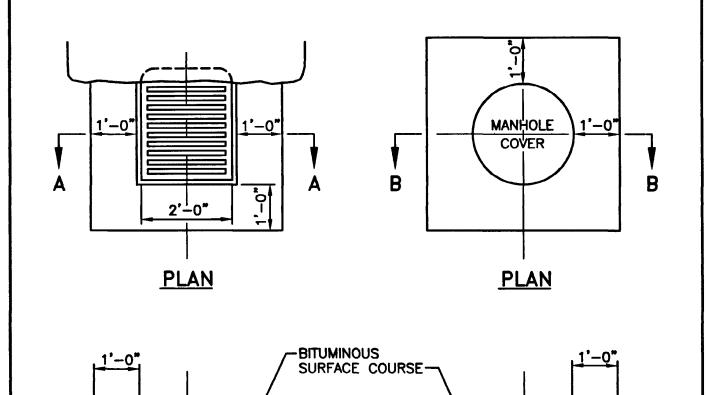
 2. THE MINIMUM DISTANCE BETWEEN PIPES ENTERING MANHOLES AND CATCH BASINS MUST BE 1'-6". THE SIZE OF THE CATCH BASIN WILL BE DETERMINED BY THE PIPE SIZE AND ENTRY ANGLE. (SEE TABLE ABOVE.)

	REVISI	ONS	ROUND MANHOLES AND CATCH BASINS	
NO.	BY	DATE	MAXIMUM PIPE SIZE STANDARD	R.I.
			MAXIMUM FIFE SIZE STANDARD	STANDA
			CHEF ENGINEER CHIEF DESIGN ENGINEER SSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	5.2.



- STEPS SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
 CROSS SECTION AREA MAY BE REDUCED UPON SUBMISSION OF CERTIFIED LOAD TESTS. STEPS MUST SUPPORT 300 LBS.
 STOCK SHOWN IS 1" SQUARE WHICH MAY BE REPLACED BY 1" DIAMETER.

	R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY	DATE	CATCH BASIN AND MANHOLE STEP	R.I. STANDARD
		CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	5.3.0



SECTION A-A CATCH BASINS

SECTION B-B MANHOLE COVERS **6**

NOTES:

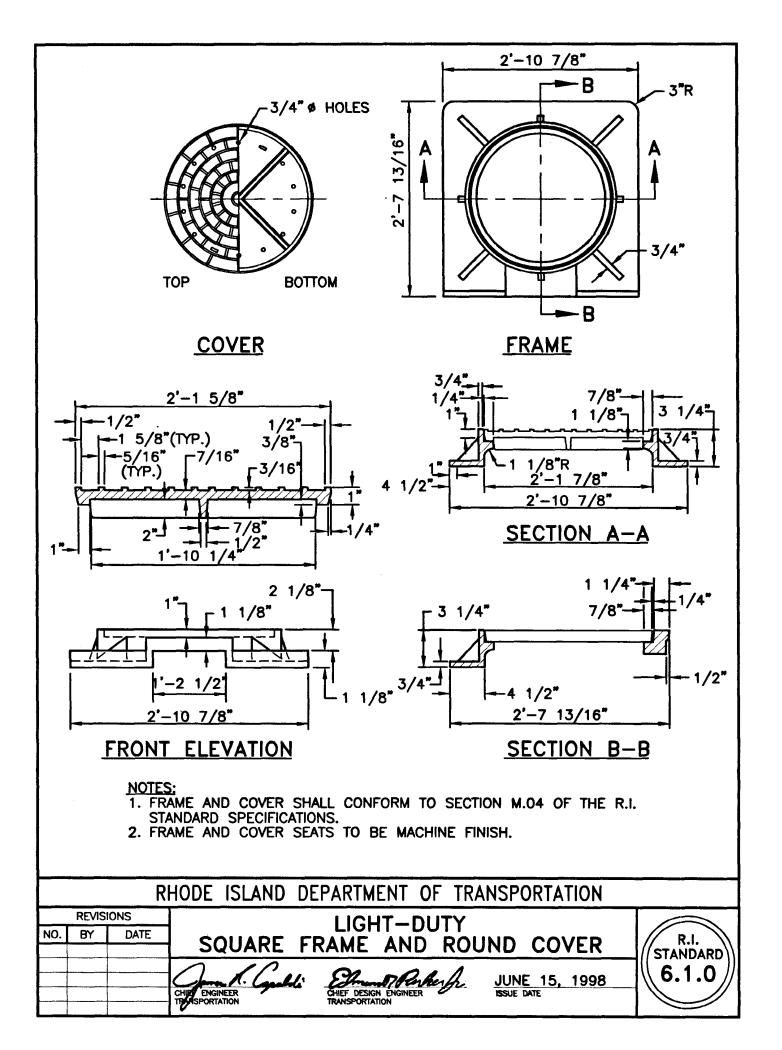
*****6

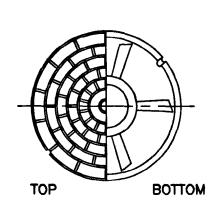
CONCRETE COLLARS -

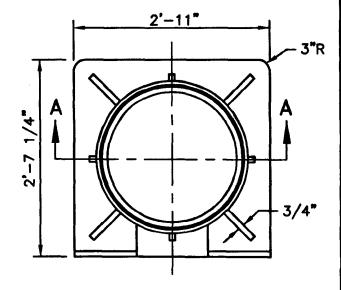
∠ ADD BRICKS IF REQUIRED

1. SHALL BE IN ACCORDANCE WITH SECTION 702 OF THE R.I. STANDARD SPECIFICATIONS.
2. COLLARS TO BE CONCRETE MASONRY AS DIRECTED.
*3. 9" OF CONCRETE IN BITUMINOUS PAVED AREAS. MEET EXISTING CONCRETE IN PORTLAND CEMENT CONCRETE AREAS.

		R	HODE ISLAND D	EPARTMENT OF TRA	ANSPORTATION	
	REVISI	IONS				
NO.	BY	DATE) co	NCRETE COLLA	RS	R.I.
			CHIEF ENGINEER	Elment Parker fr. CHIEF DESIGN ENGINEER	JUNE 15, 1998	5.4.0

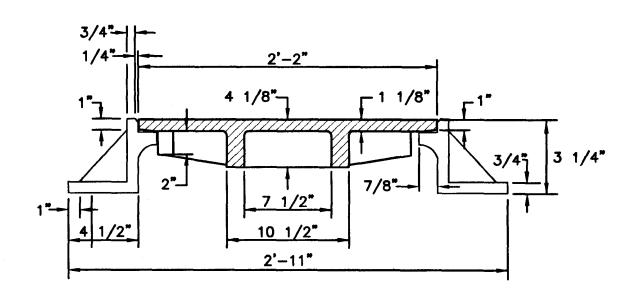






COVER

FRAME



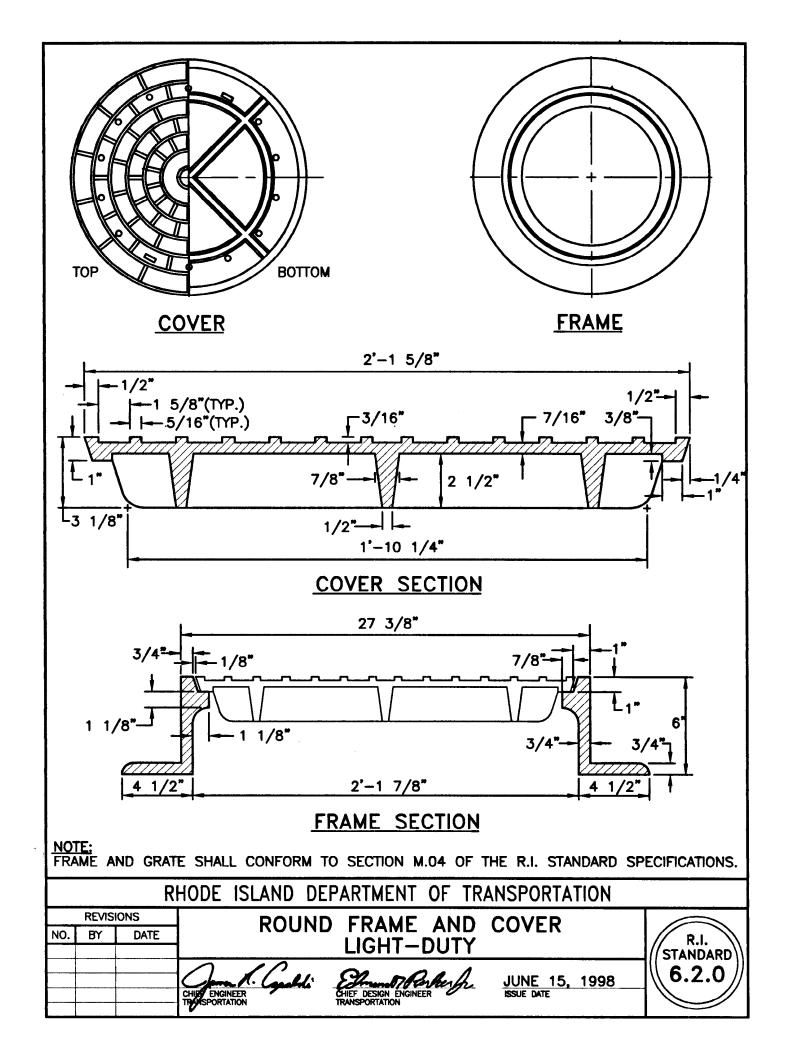
SECTION A-A

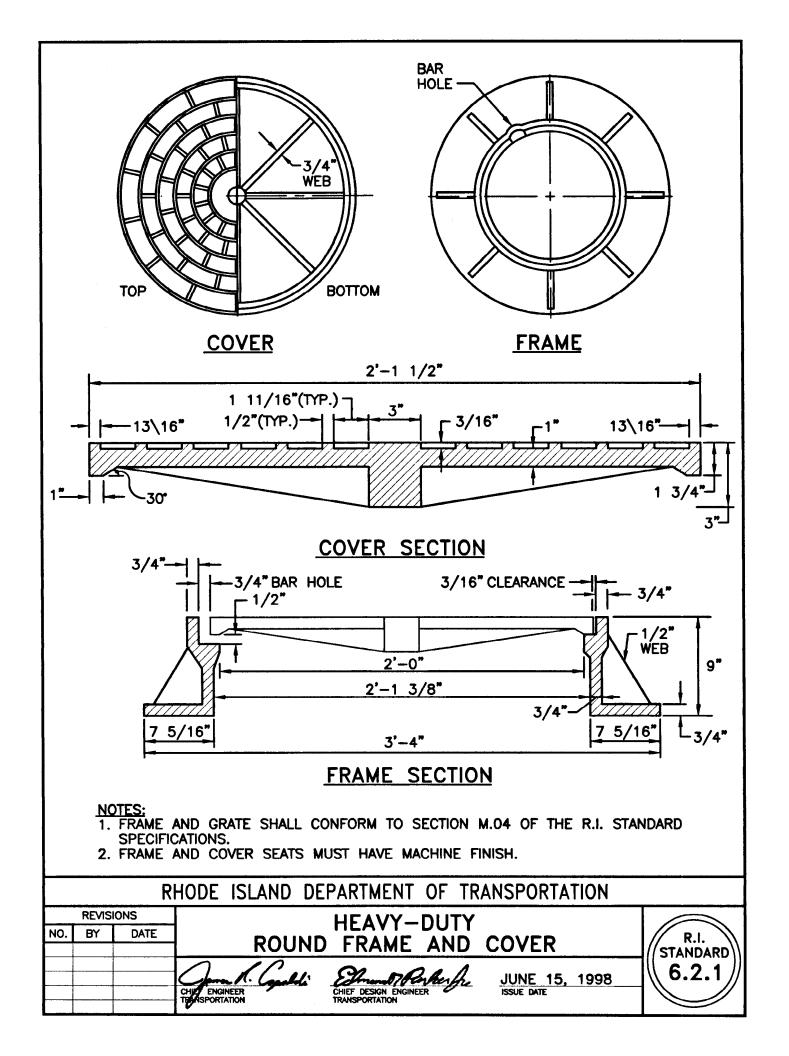
- NOTES:

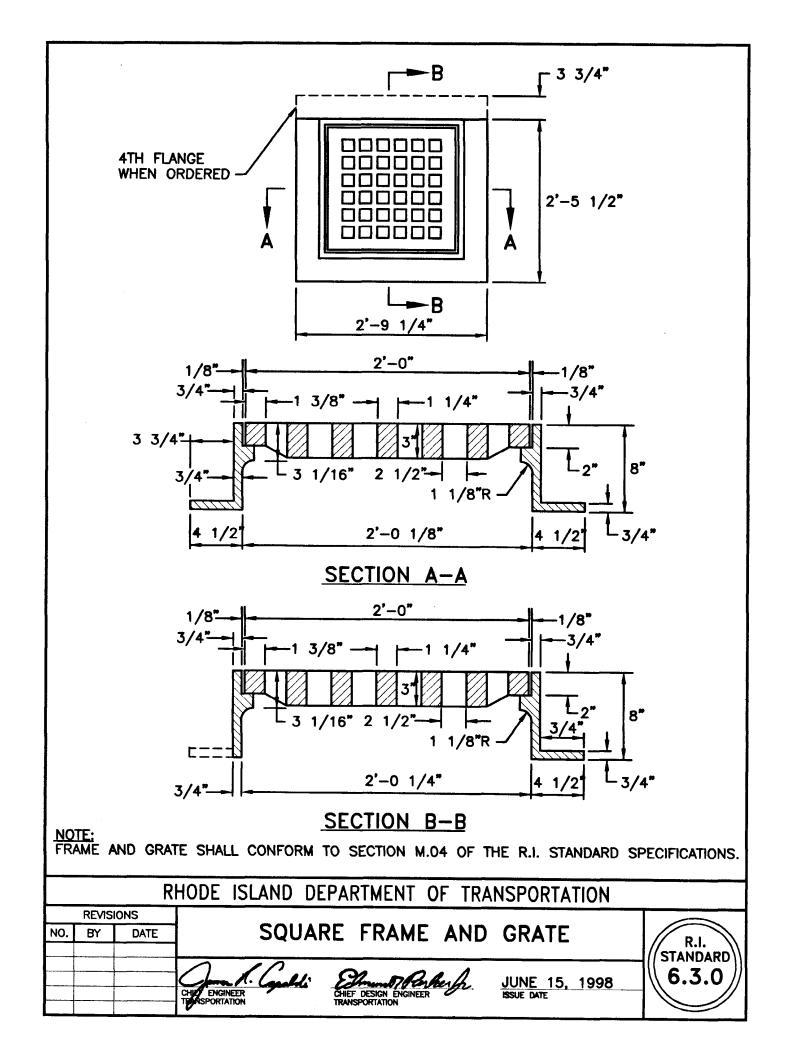
 1. FRAME AND COVER SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.

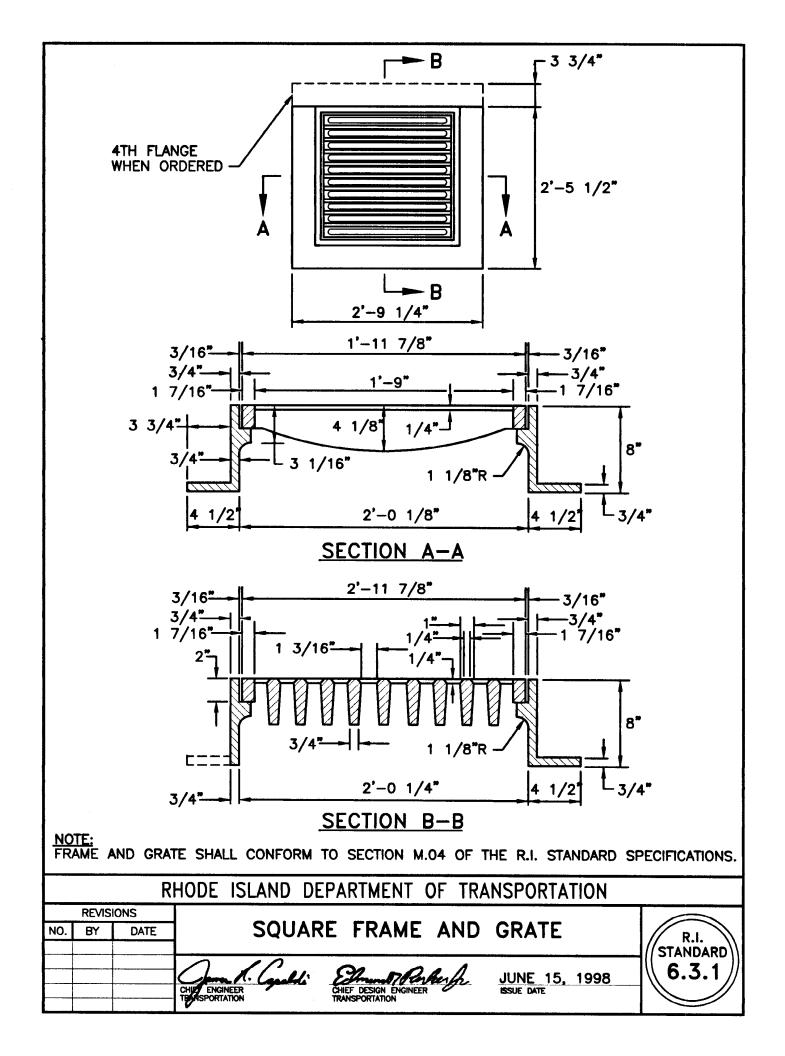
 2. FRAME AND COVER SEATS TO BE MACHINE FINISH.

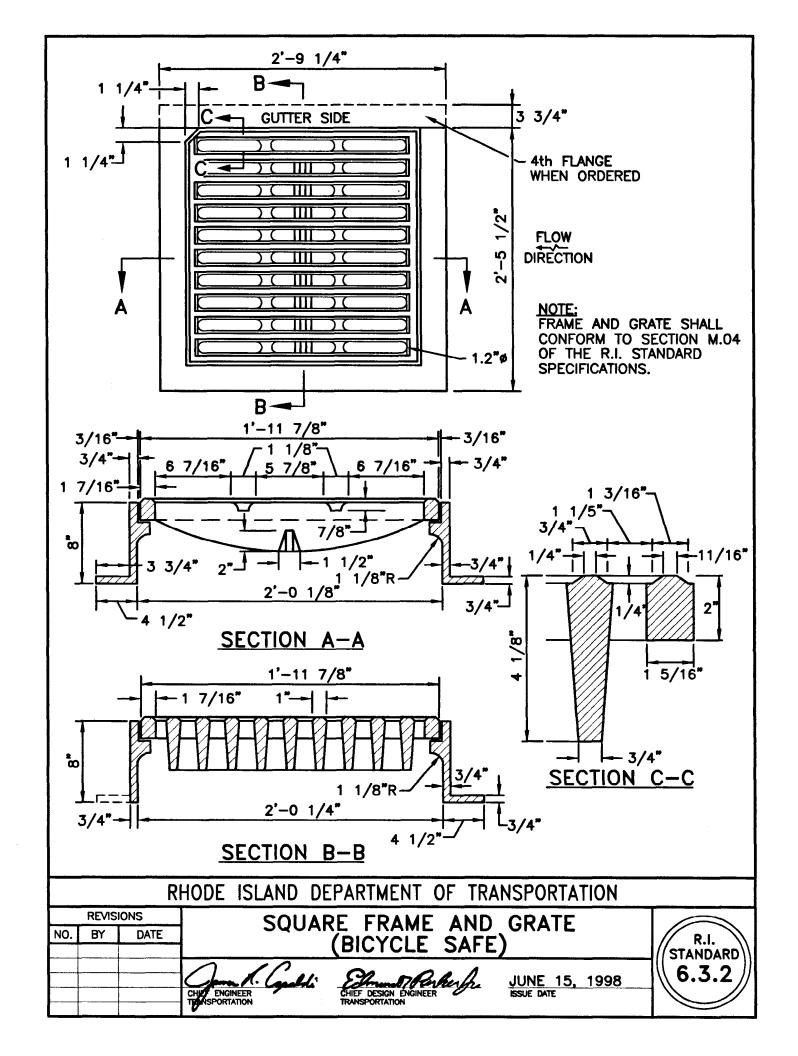
	REVISI		HODE ISLAND DEPARTMENT OF TRANSPORTATION HEAVY—DUTY	
NO.	BY	DATE	SQUARE FRAME AND ROUND COVER	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	6.1.1
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

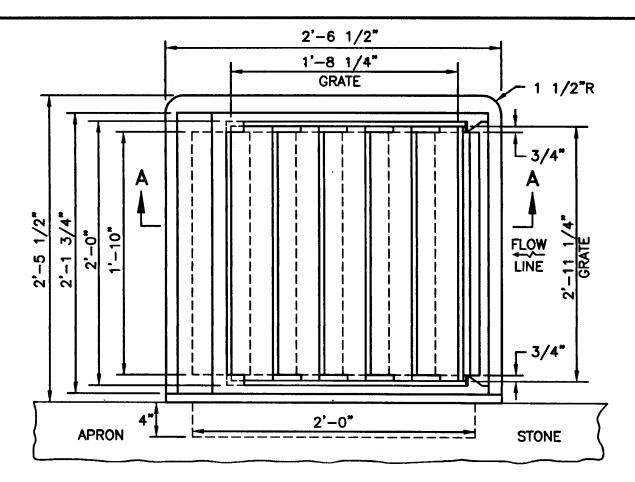




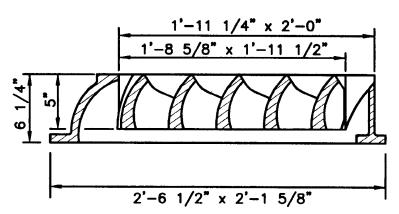








PLAN

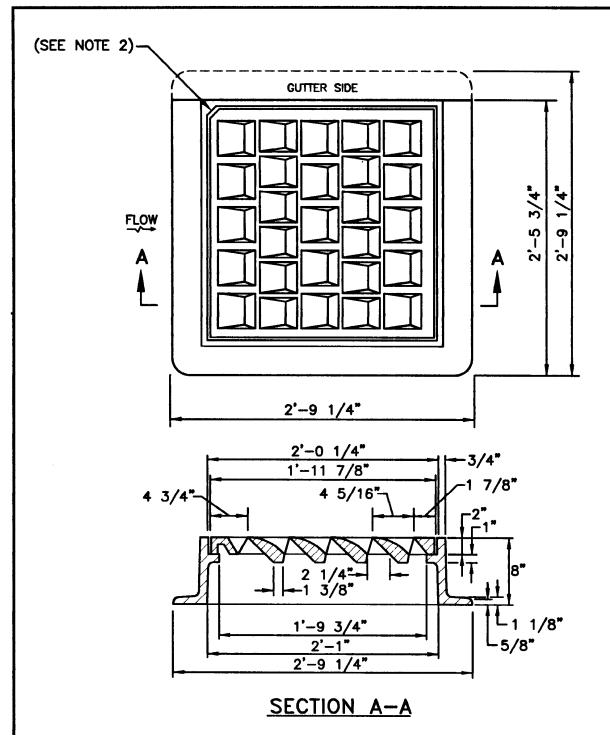


SECTION A-A

NOTES:

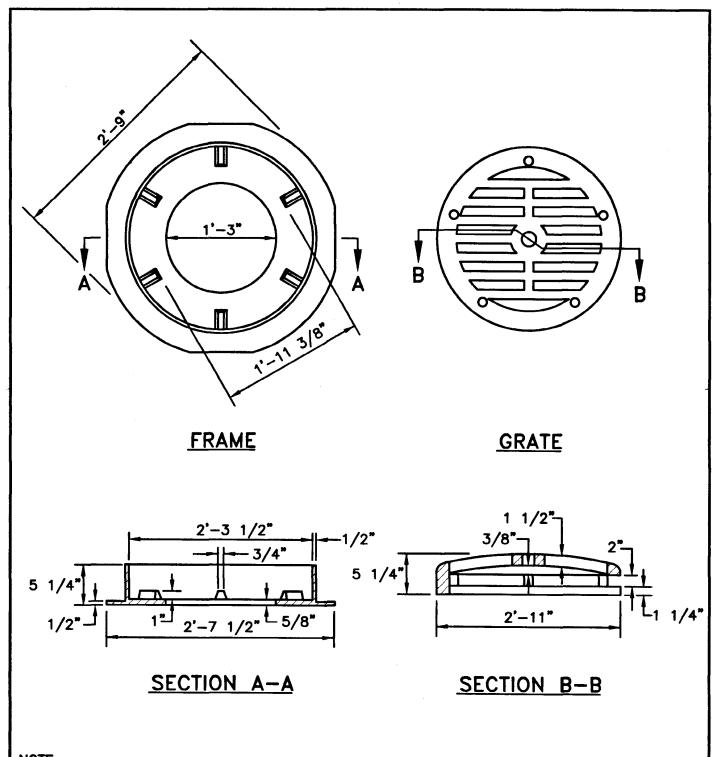
- 1. FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
 2. GRATES CAN BE INSTALLED IN ONLY ONE POSITION IN THE FRAME. CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING FRAME FOR PROPER ORIENTATION OF GRATE.
- 3. ORDER 2 FLANGE FRAME WHEN USED WITH CURBING OR APRON STONE.

	REVISIONS			
NO.	BY	DATE	HIGH CAPACITY FRAME AND GRATE	R.I.
			CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	6.3.3



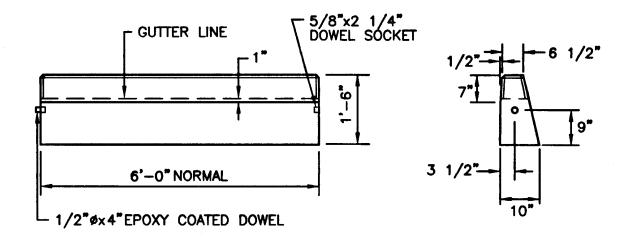
- 1. FRAME AND COVER SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THIS CORNER LEFT FOR "LEFT" GRATE, DIAGONALLY OPPOSITE CORNER FOR "RIGHT" GRATE TO FIT IN KEYED FRAME.

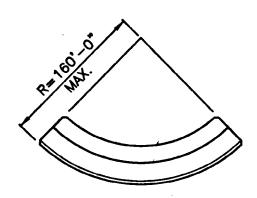
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	HIGH CARACITY FRAME AND CRATE	
NO.	BY	DATE	HIGH CAPACITY FRAME AND GRATE (BICYCLE SAFE)	R.I.
			0 10	(STANDARD) 6.3.4
			CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE	



NOTE: FRAME AND GRATE SHALL CONFORM TO SECTION M.04 OF THE R.I. STANDARD SPECIFICATIONS.

	DD #61		HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	DATE	ROUND FRAME AND GRATE	R.I.
			CHIEF DESIGN ENGINEER TENGENEER TENGENEER TENGENEER TENGENEER TRANSPORTATION TRANSPORTATION JUNE 15, 1998 ISSUE DATE	STANDARD 6.4.0

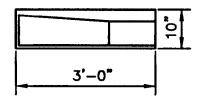


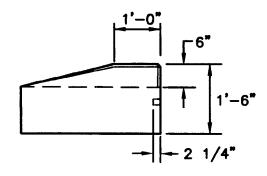


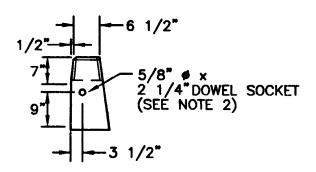
CIRCULAR CURB

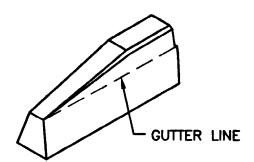
- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0".
 3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
- 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0"RADIUS.
- 5. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	N
	REVIS	IONS		
NO.	BY	DATE	PRECAST CONCRETE CURB	R.I.
			CHU ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	98 (STANDARD) 7.1.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION ISSUE DATE	



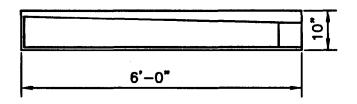


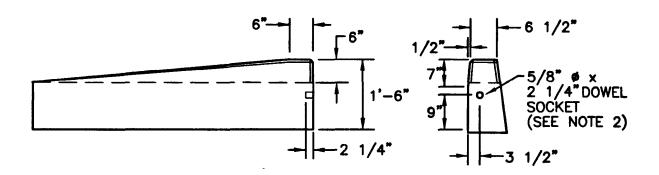


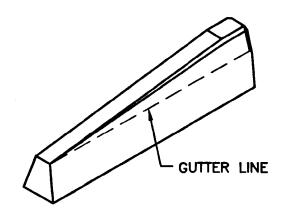


- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION, FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" Ø x 4" EPOXY COATED DOWEL.
 EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 EXPOSED EDGES TO HAVE A 3/4"CHAMFER.

		R	HODE ISLAND DEP	ARTMENT OF TRA	ANSPORTATION	
NO.	REVISI BY	ONS DATE		PRECAST CO ANSITION CUI		R.I. STANDARD
			CHA ENGINEER TRANSPORTATION	Chant Parke fr. HIEF DESIGN ENGINEER RANSPORTATION	JUNE 15, 1998 ISSUE DATE	7.1.1

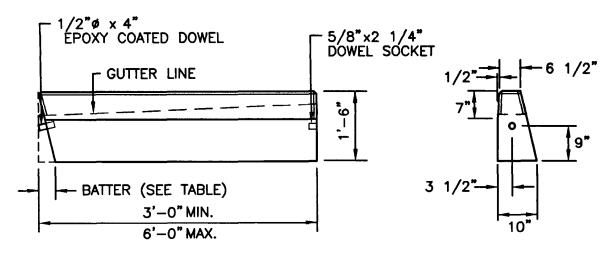


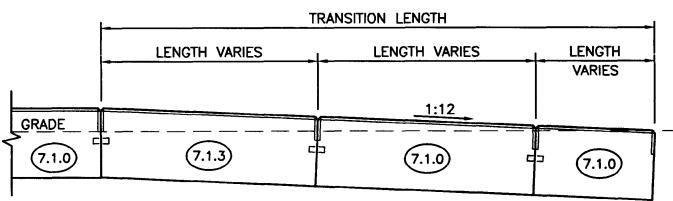




- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" Ø x 4" EPOXY COATED DOWEL.
 EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
 REVISIONS BY DATE	6'-0" PRECAST CONCRETE TRANSITION CURB	R.I. STANDARD
	CHU ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.1.2



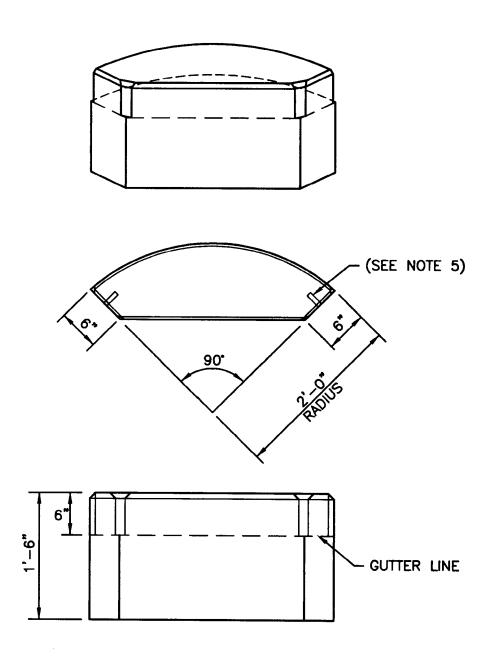


TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0"OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0"RADIUS.
 EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
- 4. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
- 5. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).

RHODE ISLAND DEPARTMENT (0F	TRANSPORTATION
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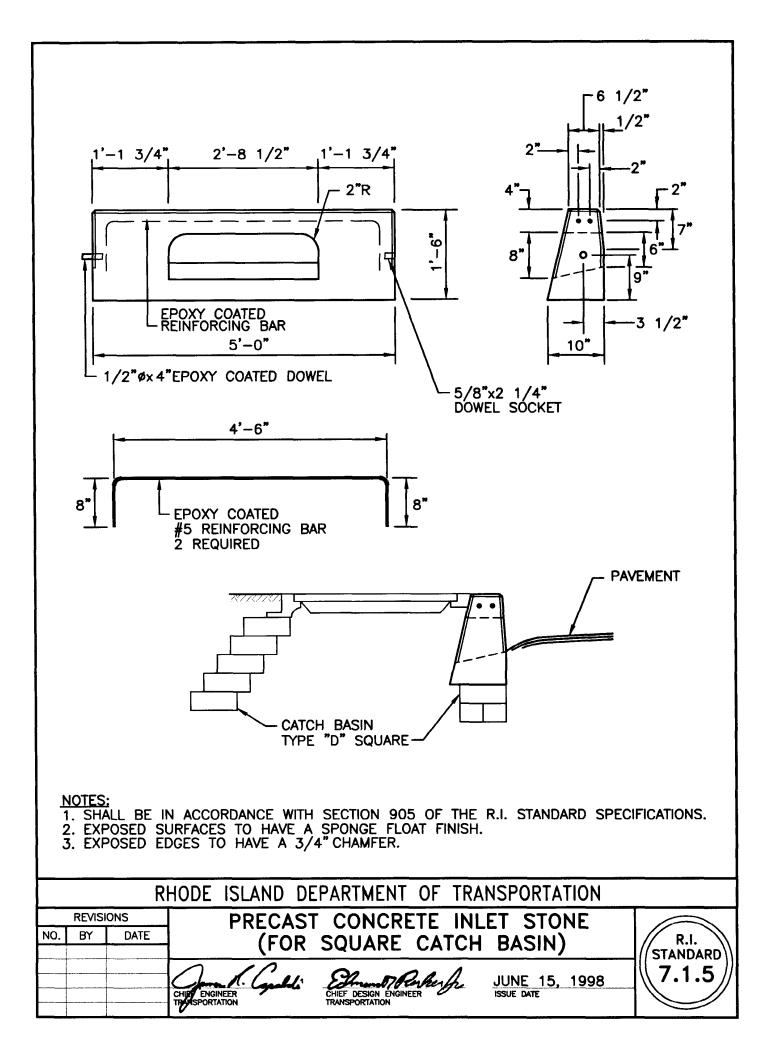
REVISIONS			PRECAST CO	NCRETE WHEE	LCHAIR RAMP	
NO.	BY	DATE		RANSITION CUI		R.I. STANDARD
			CHIP ENGINEER TENGSPORTATION	Elmant Parker fr. CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998	7.1.3

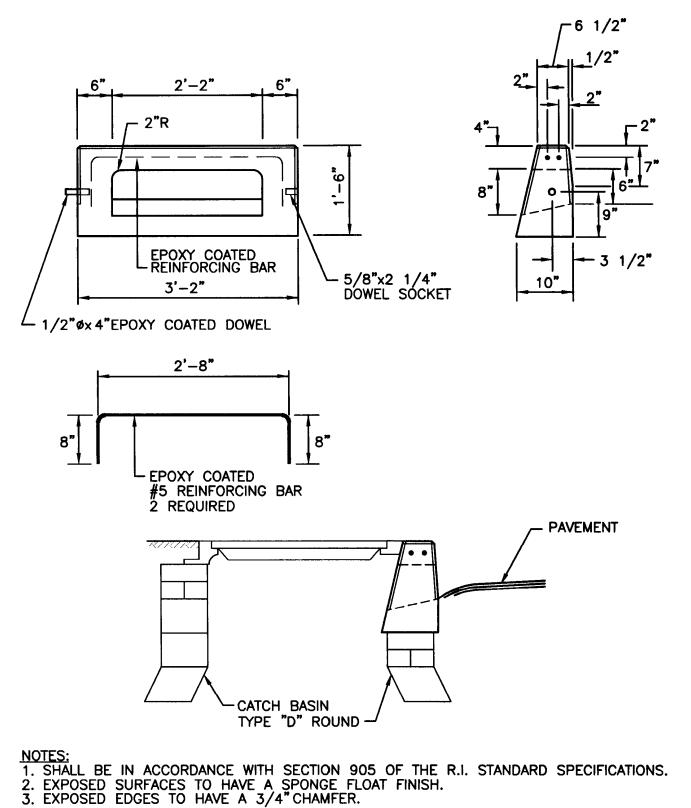


- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 3. NO REINFORCEMENT REQUIRED.

- 4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 5. SEE STD. 7.1.0 FOR DOWEL SOCKET LOCATION.

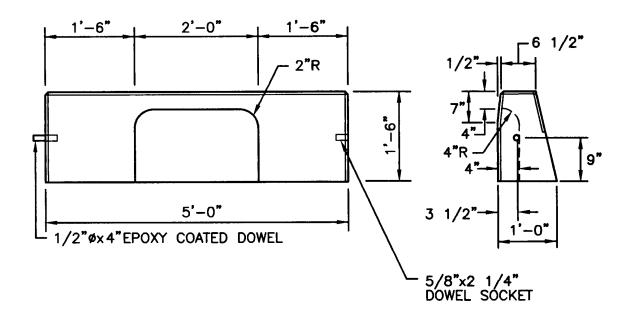
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
1	REVIS	IONS	DDECAST CONCDETE	
NO.	BY	DATE	PRECAST CONCRETE 2'-0" RADIUS CORNER	R.I.
			0 10	STANDARD
			CHIEF DESIGN ENGINEER THASPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.1.4

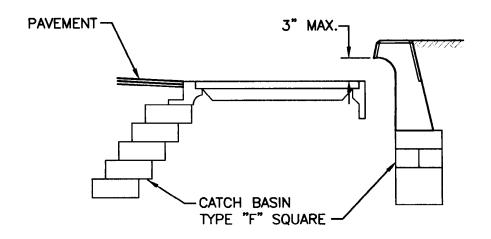




RHODE ISLAI	ND DEPARTMENT	OF	TRANSPORTATION

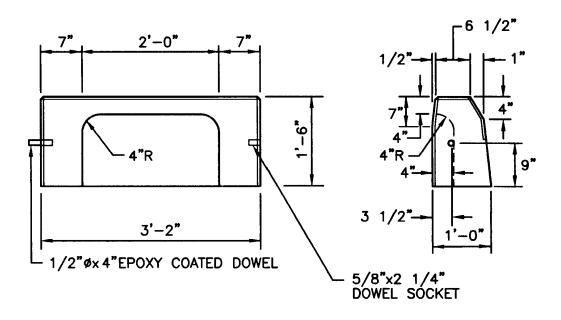
NO.	REVIS BY	ONS DATE	PRECAST CONCRETE INLET STONE (FOR ROUND CATCH BASIN)	R.I. STANDARD
			CHIEF DESIGN ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.1.6

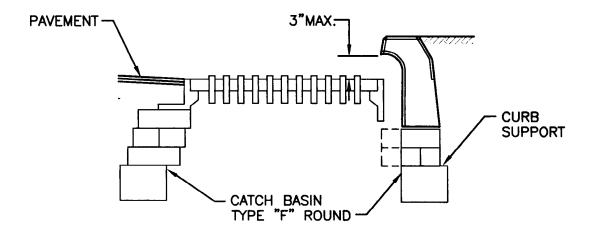




- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 3. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

	RHODE ISLAND DEPARTMENT OF TRANSPORTATION						
NO.	REVIS BY	ONS DATE	PRECAST CONCRETE APRON STONE (FOR SQUARE CATCH BASIN)	R.I. STANDARD			
			CHIEF DESIGN ENGINEER THATSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.1.7			

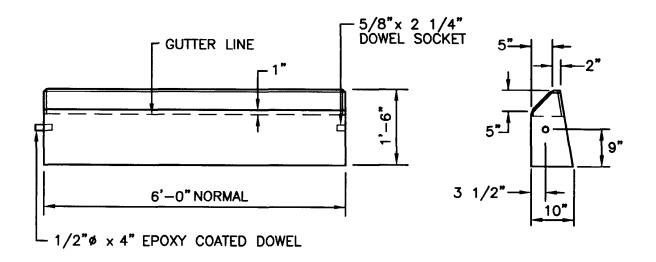


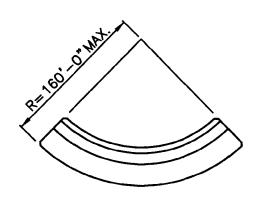


- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 2. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 3. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.

RI	HODE	ISLAND	DEPARTMENT	OF	TRANSPORTATION

NO.	REVIS BY	ONS DATE		CONCRETE APR ROUND CATCH	ON STONE BASIN)	R.I. STANDARD
			CHUT ENGINEER TRANSPORTATION	Elment Perker fr. CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	7.1.8

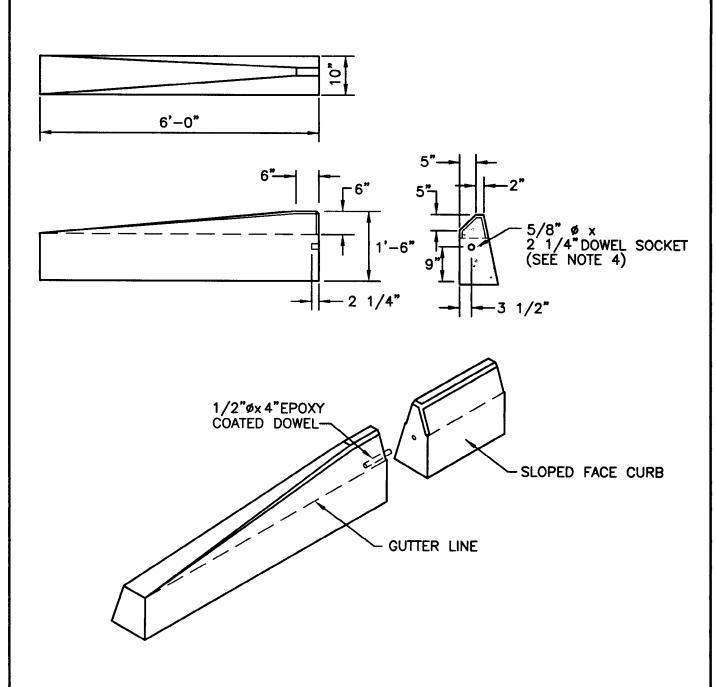




CIRCULAR CURB

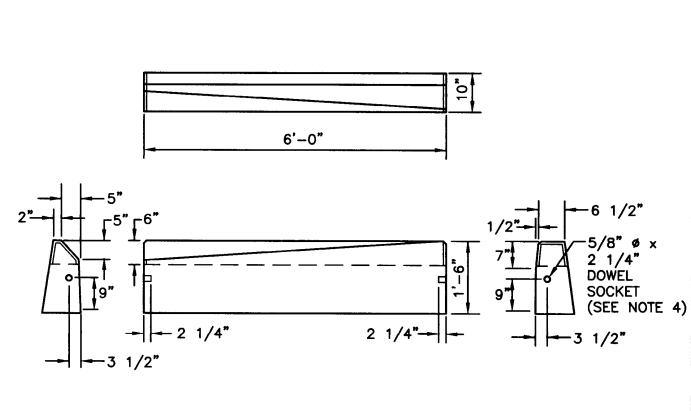
- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
- 3. EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
- 4. EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 5. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

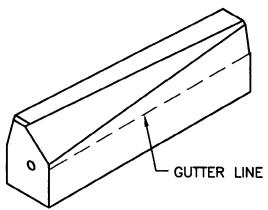
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	IONS	PRECAST CONCRETE	
NO.	BY	DATE	SLOPED FACE CURB	R.I.
	SLOPED FACE CORB			
			CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.2.0



- SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
 EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" Ø x 4" EPOXY COATED DOWEL.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	PRECAST CONCRETE	
NO.	BY	DATE	SLOPED FACE TRANSITION CURB	R.I.
			CHIP ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION	7.2.1

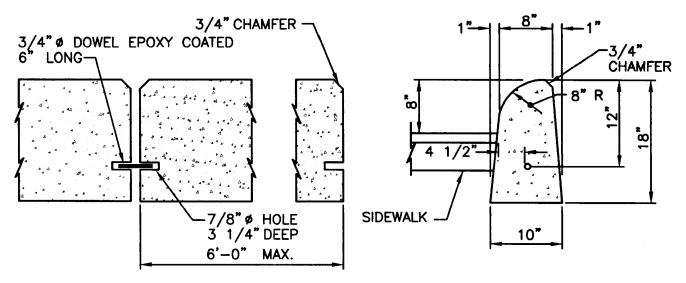




- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

- STALL BE IN ACCORDANCE WITH SECTION 903 OF THE R.T. STANDARD SPECIFICATIONS
 EXPOSED SURFACES TO HAVE A SPONGE FLOAT FINISH.
 EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
 DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND AND INCLUDE A 1/2" Ø x 4" EPOXY COATED DOWEL.

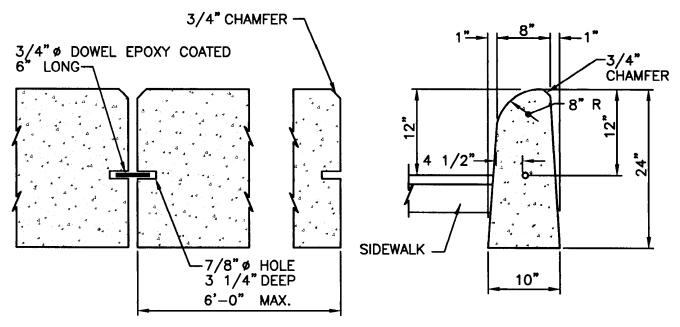
RHODE ISLAND DEPARTMENT OF TRANSPORTATION **REVISIONS** PRECAST CONCRETE TRANSITION CURB NO. DATE (VERTICAL FACE TO SLOPED FACE) R.I. **STANDARD** CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 CHAF ENGINEER ISSUE DATE



LONGITUDINAL SECTION @ JOINT

END SECTION

1'-6" LOT CURB



LONGITUDINAL SECTION @ JOINT

END SECTION

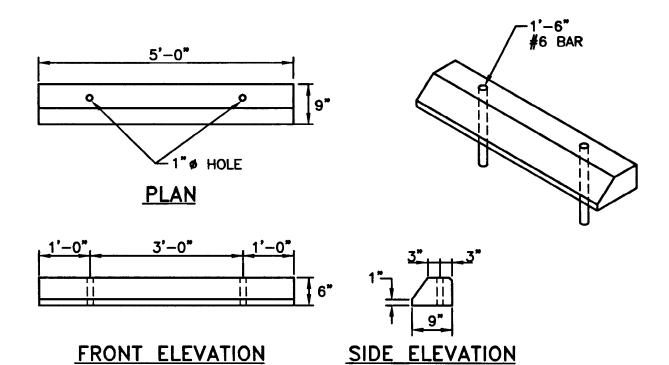
2'-0" LOT CURB

NOTES:

- SHALL BE IN ACCORDANCE WITH SECTION 906 OF THE R.I. STANDARD SPECIFICATIONS.
 1/8" JOINTS DOWELED WITH A 3/4" Ø DOWEL 6" LONG.
 TOP AND EXPOSED SURFACES TO H+ 2" TO HAVE A SPONGE FLOAT FINISH.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

NO.	REVIS BY	IONS DATE	PRECAS	CONCRETE L	OT CURB	R.I. STANDARD
			CHIEF ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	7.2.3

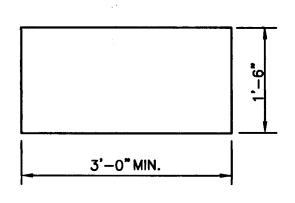


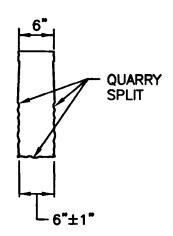
- NOTES:

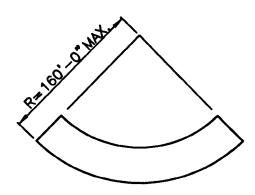
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

 2. ALL EXPOSED EDGES TO HAVE A 3/4" CHAMFER.
- 3. ALL SURFACES TO HAVE A SPONGE FLOAT FINISH.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	DATE	PRECAST CONCRETE CAR STOPS	R.I. STANDARD
			CHIEF DESIGN ENGINEER ISSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	7.2.4



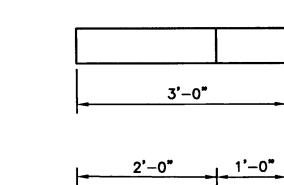


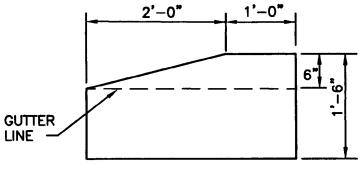


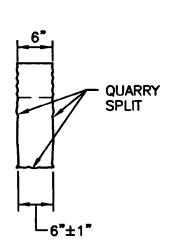
CIRCULAR CURB

- NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.
- 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
- 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

		F	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	-
NO.	REVIS BY	DATE	GRANITE CURB	R.I. STANDARD
			CHU ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	7.3.0



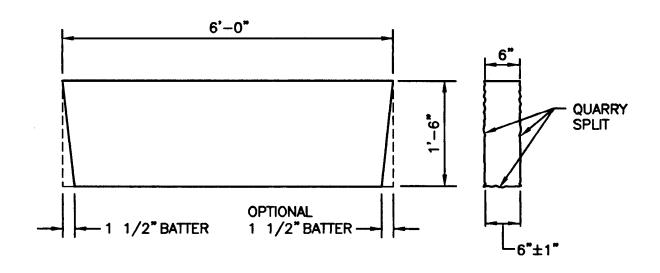


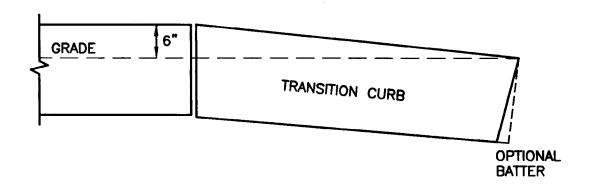


NOTES:
1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

2. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.

REVIS	SIONS	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY	DATE	3'-0" GRANITE TRANSITION CURB	R.I. STANDARD
		Jan K. Cycli Elment Porker June 15, 1998	7.3.1
		CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

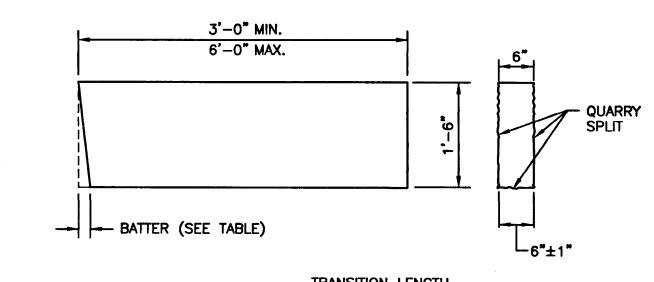




- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.

 3. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	ONS DATE	6'-0" GRANITE TRANSITION CURB	R.I. STANDARD
			CHIEF DESIGN ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.3.2



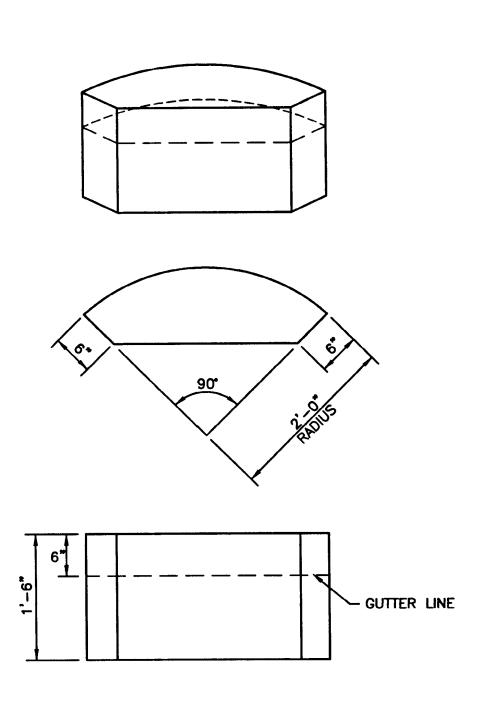
 -	TRANSITION LENGTH				
	LENGTH VARIES	LENGTH VARIES	LENGTH		
	•		VARIES		
		1:12			
GRADE					
7.3.0	7.3.3	(7.3.0)	(7.3.0)		

TRANSITION LENGTH (FT.)	BATTER (IN.)
6.0	1.5
7.0	1.3
8.0	1.2
9.5	1.0
11.5	0.8
15.0	0.6
18.0	0.5

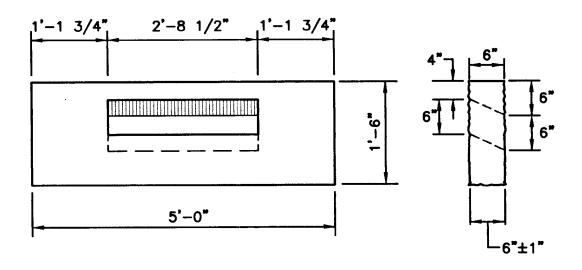
- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR MAY CUT EXISTING CURB SECTIONS AS REQUIRED TO MEET THIS DETAIL AND THE R.I. STANDARD SPECIFICATIONS, WHERE OLD CURBING IS BEING REUSED.
- 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR CURB FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).
- 4. TOP SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.

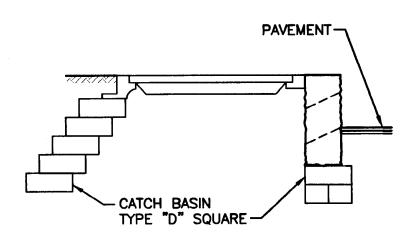
RHODE	ISLAND	DEPARTMENT	OF	TRANSPORTATION

REVISIONS			GRANIT	TE WHEELCHAIR	DAMD	
NO. BY DATE		DATE	l .	RANSITION CUR		R.I.
			CHIEF ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	7.3.3

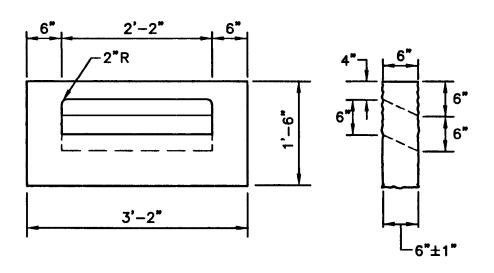


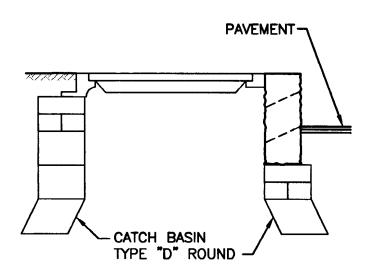
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	ONS DATE	GRANITE 2'-0" RADIUS CORNER	R.I. STANDARD
			CHUÉ ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.3.4



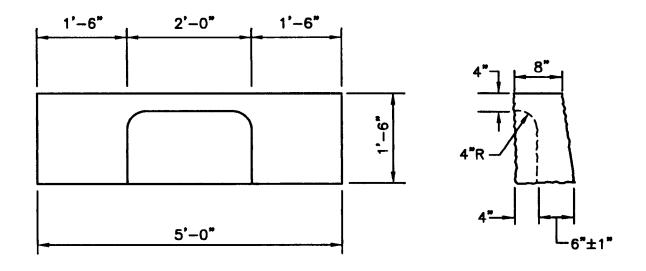


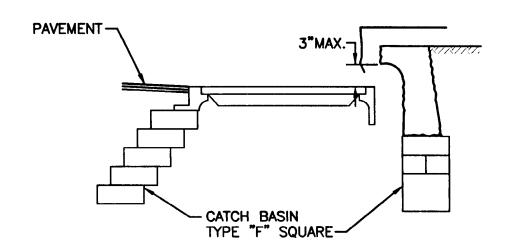
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	ONS	GRANITE INLET STONE	
NO.	BY	DATE	(FOR SQUARE CATCH BASIN)	R.I.
				((STANDARD))
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE]((7.3.5 <i>))</i>
		:	CHIEF ENGINEER CHIEF DESIGN ÉNGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



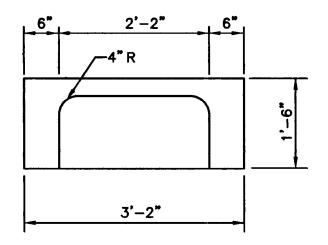


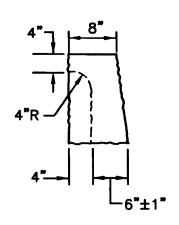
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
F	REVISI	ONS	GRANITE INLET STONE	
NO.	BY	DATE	(FOR ROUND CATCH BASIN)	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER BY ISSUE DATE	7.3.6
			THUSPORTATION TRANSPORTATION	

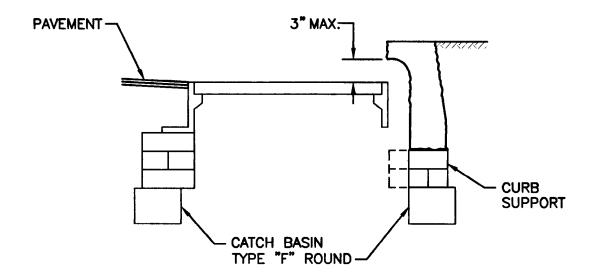




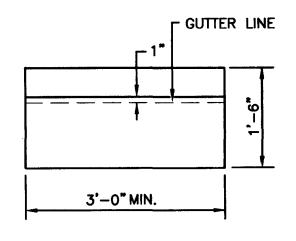
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	ONS	GRANITE APRON STONE	
NO.	BY	DATE	(FOR SQUARE CATCH BASIN)	R.I. STANDARD
			CHIEF ENGINEER TRANSPORTATION TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.3.7

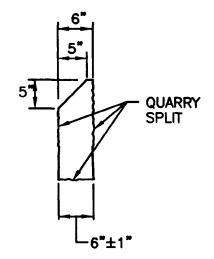


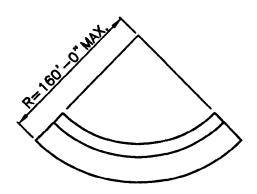




R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS NO. BY DATE	GRANITE APRON STONE (FOR ROUND CATCH BASIN)	R.I. STANDARD
	CHIEF ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.3.8



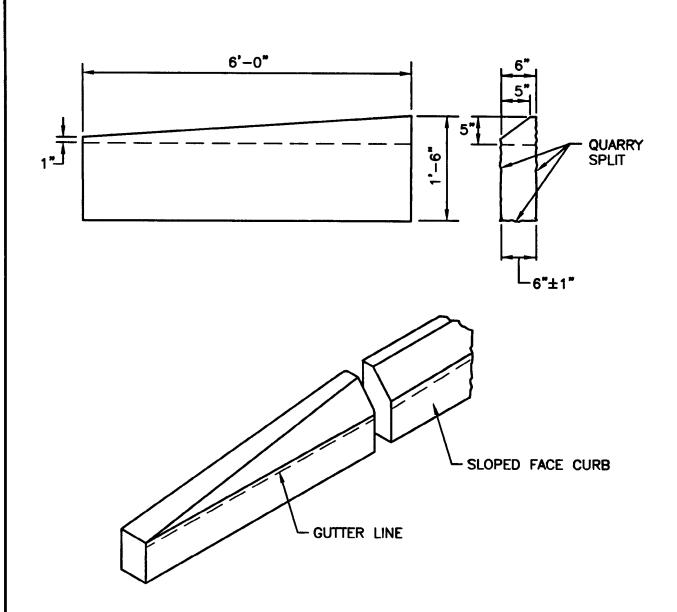




CIRCULAR CURB

- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.
- 3. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR PIECES TO BE 3'-0".
- 4. CIRCULAR CURB IS REQUIRED ON CURVES WITH RADII OF 160'-0" OR LESS. STRAIGHT CURB TO BE USED ON CURVES OF MORE THAN 160'-0" RADIUS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	IONS DATE	GRANITE SLOPED FACE CURB	R.I.
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	(STANDARD)
			CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



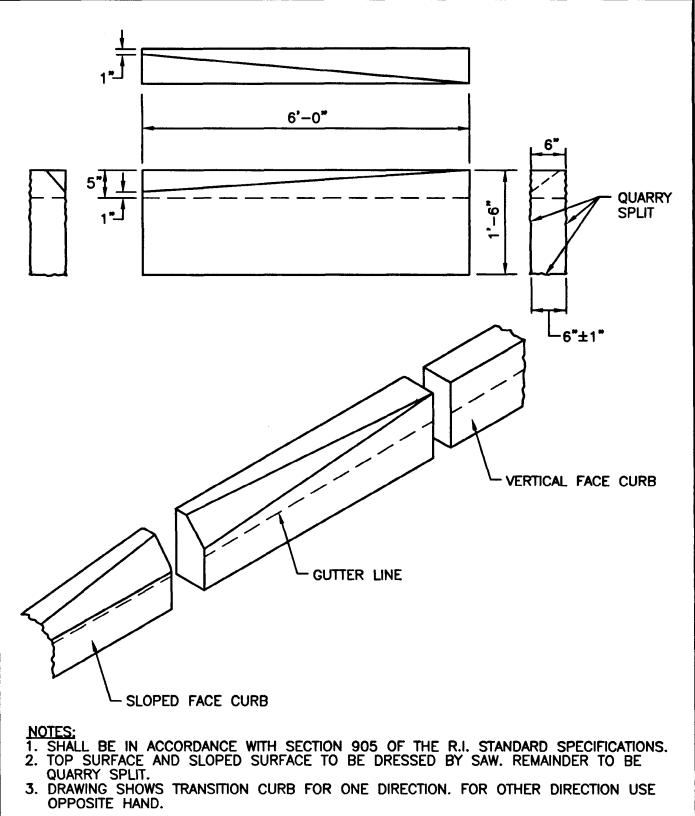
- NOTES:

 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

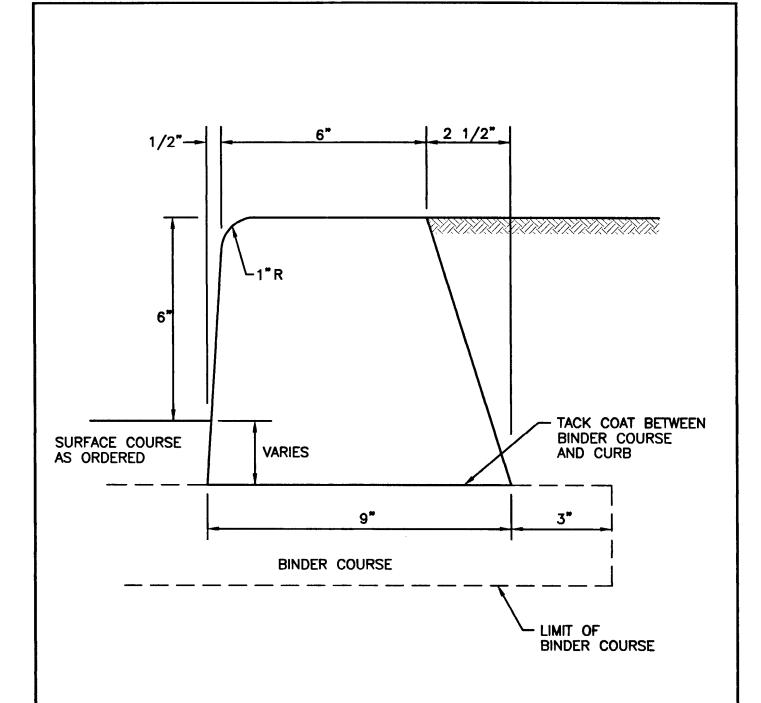
 2. TOP SURFACE AND SLOPED SURFACE TO BE DRESSED BY SAW. REMAINDER TO BE QUARRY SPLIT.

 3. DRAWING SHOWS TRANSITION CURB FOR ONE DIRECTION. FOR OTHER DIRECTION USE OPPOSITE HAND.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS		GRANITE	
NO.	BY	DATE	SLOPED FACE TRANSITION CURB	R.I. STANDARD
			CHIP ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998	7.4.1
			CHIEF DESIGN ENGINEER ISSUE DATE THATSPORTATION TRANSPORTATION	

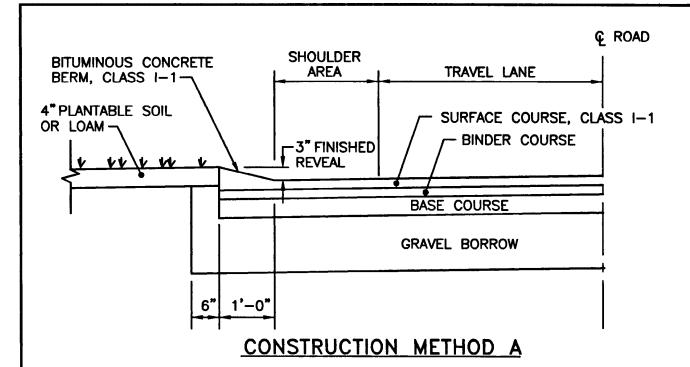


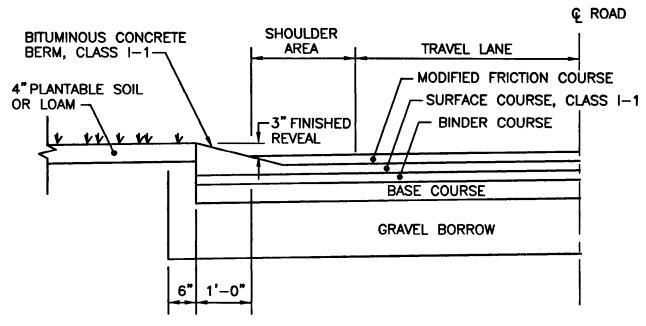
		R	HODE ISLAND D	EPARTMENT OF TR	ANSPORTATION	
	REVISI	ONS	GRAN	ITE TRANSITION	CURR	
NO.	BY	DATE	(VERTICAL	FACE TO SLO	PED FACE)	R.I.
			Jank Carli	Elment Parker fr.	JUNE 15, 1998	
L			CHILD ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	



 $\frac{\text{NOTE:}}{\text{SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.}}$

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	ONS DATE	BITUMINOUS CONCRETE LIP CURB	R.I. STANDARD
			CHIEF DESIGN ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE SSUE DATE	7.5.0

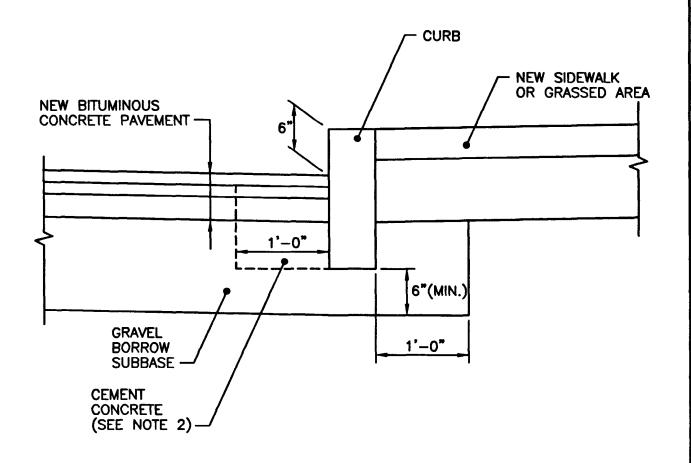




CONSTRUCTION METHOD B

- 1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. BITUMINOUS BERM CAN BE PLACED AT THE SAME TIME THAT THE SURFACE COURSE LAYER IS PLACED ON THE PROJECT ROADWAY, OR IT CAN BE INSTALLED IN A SEPARATE OPERATION.

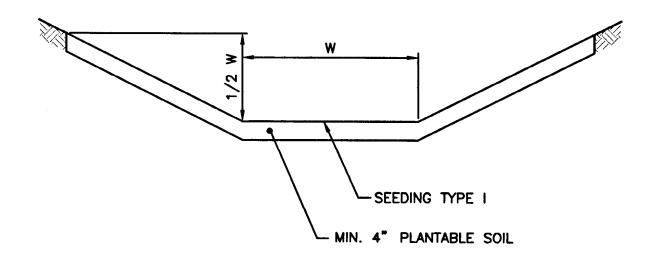
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	ONS DATE	BITUMINOUS BERM	R.I. STANDARD
			CHIEF DESIGN ENGINEER THAT SPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.5.1



1. SHALL BE IN ACCORDANCE WITH SECTION 905 OF THE R.I. STANDARD SPECIFICATIONS.

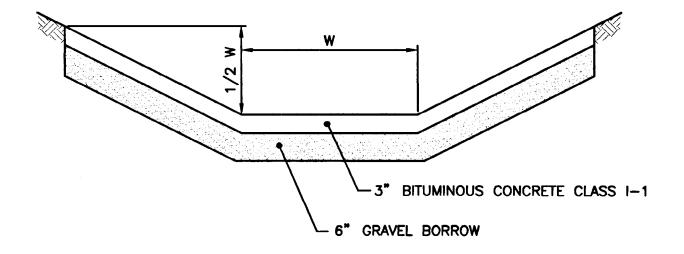
2. CEMENT CONCRETE SHALL BE USED ONLY WHEN THE CURB IS SET AFTER THE BASE AND/OR BINDER COURSES ARE IN PLACE, OTHERWISE THE CEMENT CONCRETE WILL BE ELIMINATED AND THE GRAVEL BROUGHT UP TO BOTTOM OF THE BASE COURSE.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	IONS DATE	CURB SETTING DETAIL	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION JUNE 15, 1998 ISSUE DATE	7.6.0



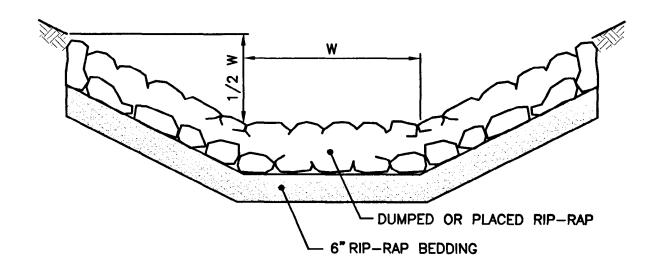
NOTE: SLOPES MAY VARY TO SUIT CONDITIONS AS PER PLANS OR ENGINEER.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	ONS DATE	SEEDED DITCH	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	8.1.0



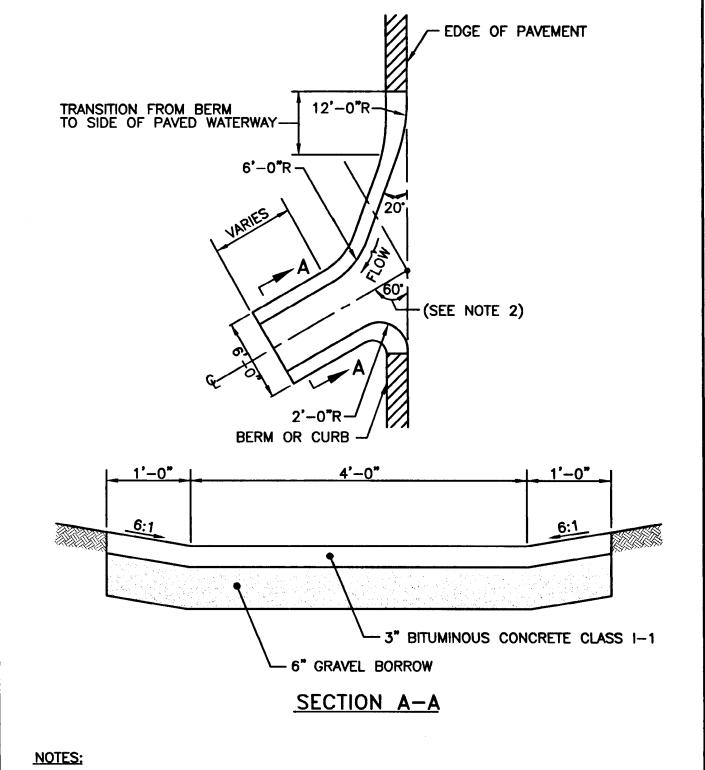
NOTE: SLOPES MAY VARY TO SUIT CONDITIONS AS PER PLANS OR ENGINEER.

	REVISI	ONS		R.I. STANDARD
NO.	BY	Y DATE	BITUMINOUS CONCRETE DITCH	
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	8.2.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



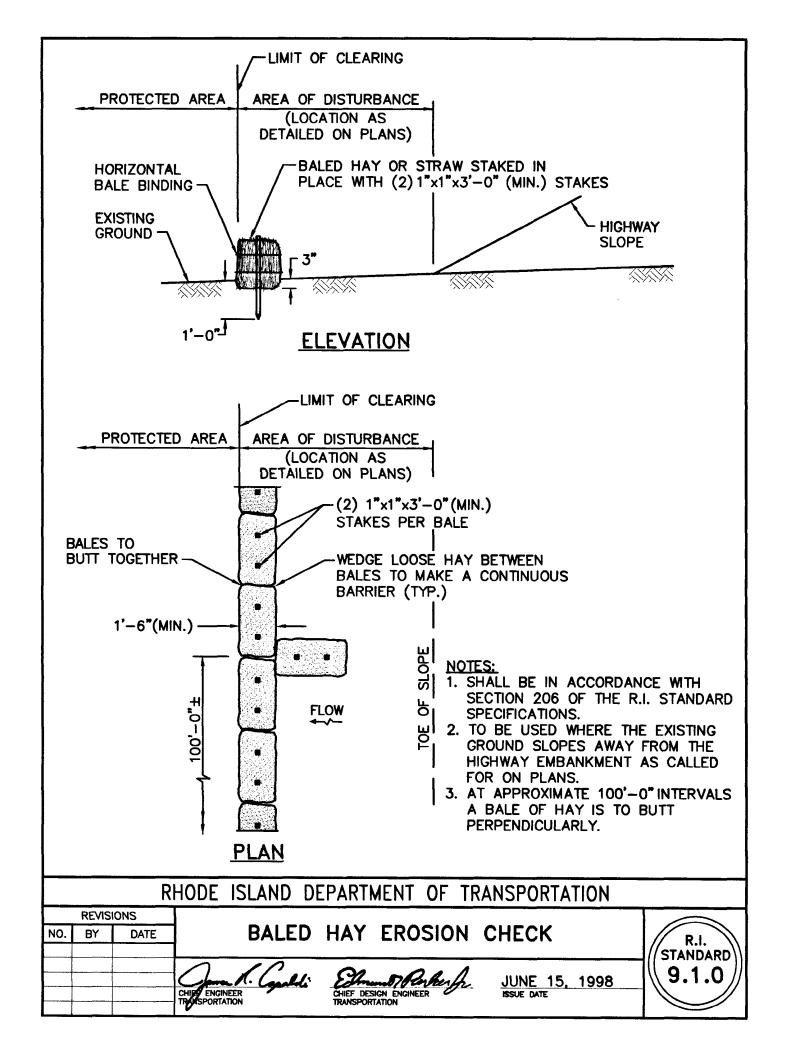
- 1. SLOPES MAY VARY TO SUIT CONDITIONS AS PER PLANS OR ENGINEER.
 2. RIP-RAP AND BEDDING SIZE MAY VARY. SEE CONTRACT DOCUMENTS.

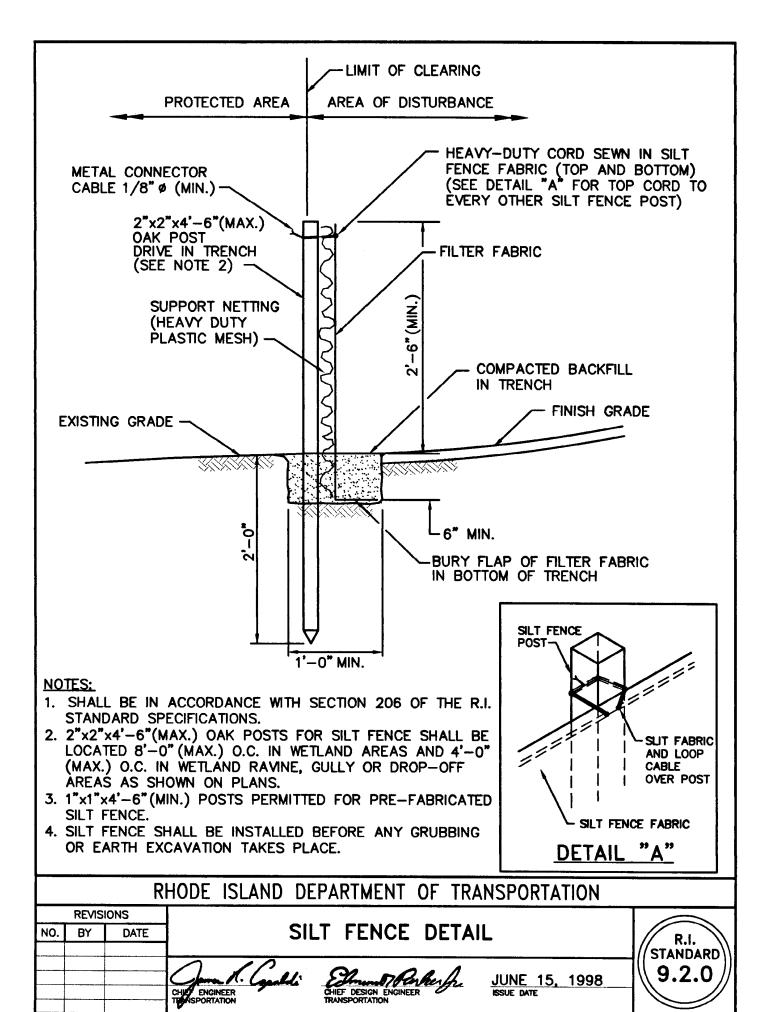
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	IONS DATE	RIP-RAP DITCH	R.I. STANDARD
			CHUT ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	8.3.0

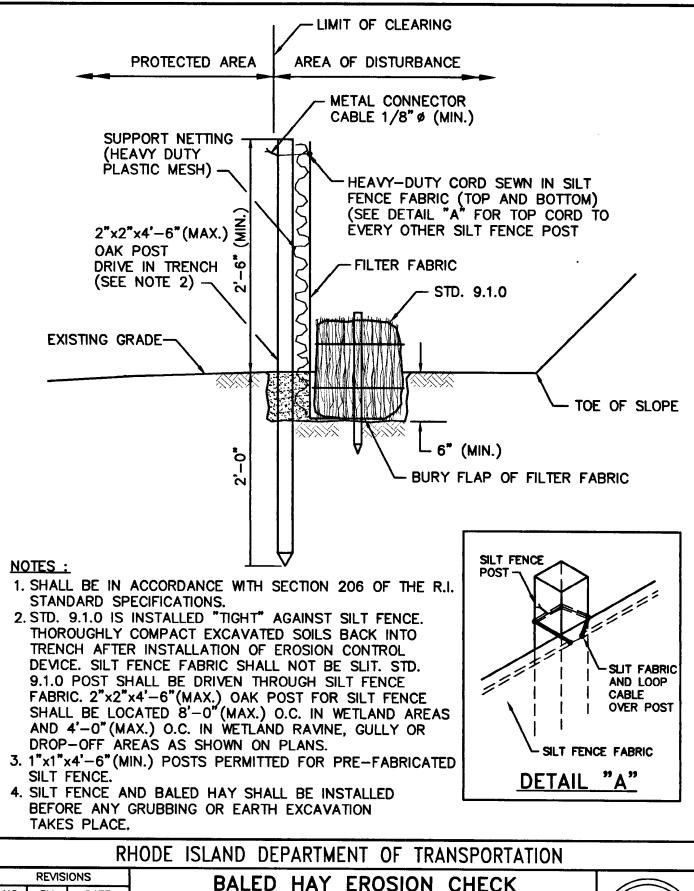


- 1. SHALL BE IN ACCORDANCE WITH SECTION 711 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. WHEN PAVED WATERWAY IS USED AT A LOW POINT THIS ANGLE SHALL BE 90°.

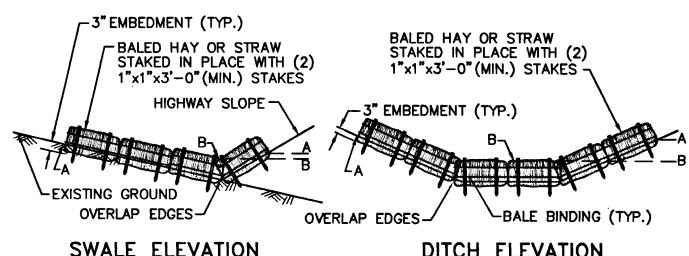
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	DATE	PAVED WATERWAY	R.I. STANDARD
			CHIEF DESIGN ENGINEER JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	8.4.0





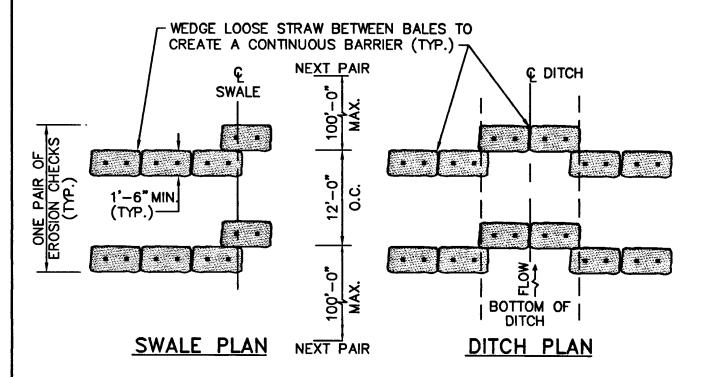


			HODE ISLAND DE	LI AICHMLINI OI 1IV	ANDIONIATION	
L	REVIS	IONS	RALED	HAY EROSION	CHECK	
NO.	BY	DATE		SILT FENCE COI		R.I.
			AND	SILI PENCE CO	MDINED	//STANDARD
			CHIEF ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	9.3.0
			INSUSPORTATION	TRANSPORTATION		



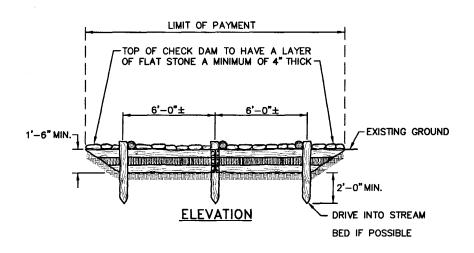
SWALE ELEVATION

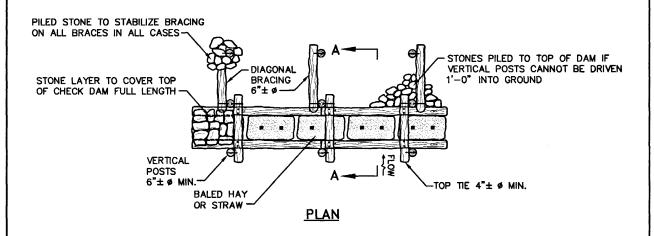
DITCH ELEVATION

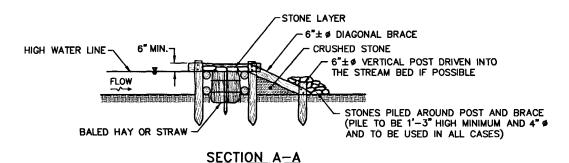


- 1. SHALL BE IN ACCORDANCE WITH SECTION 207 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. TO BE USED IN LOCATIONS WHERE THE EXISTING GROUND SLOPES IN TOWARD THE EMBANKMENT OR IN DRAINAGE DITCHES AS CALLED FOR ON THE PLANS.
- THE BALES ARE TO BE EMBEDDED A MINIMUM OF 3" INTO THE EXISTING GROUND. HIGHWAY SLOPE OR DITCH SECTION.
- 4. POINTS "A" SHOULD BE AT A HIGHER ELEVATION THAN POINTS "B".

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	DALED HAY DITCH AND	
NO.	BY	DATE	BALED HAY DITCH AND	R.I.
			SWALE EROSION CHECK	STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	9.4.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	







- 1. SHALL BE IN ACCORDANCE WITH SECTION 207 OF THE R.I. STANDARD SPECIFICATIONS.

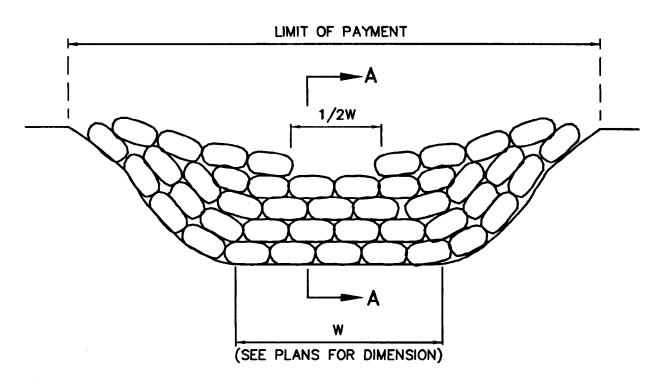
 2. DAM TO BE CONSTRUCTED OF NATIVE LOGS OBTAINED FROM CLEARING OPERATION, WHEN AVAILABLE. ALL LOGS TO BE SPIKED WITH WIRE SPIKES OR BOLTED TOGETHER. EXISTING TREES, BOULDERS OR LEDGE MAY BE USED IN PLACE OF THE THE VERTICAL POSTS AT THE DISCRETION OF THE ENGINEER.

 3. WHEN VERTICAL POST CANNOT BE DRIVEN INTO THE STREAM BED, STONES SHALL BE USED TO BRACE THE STRUCTURE.

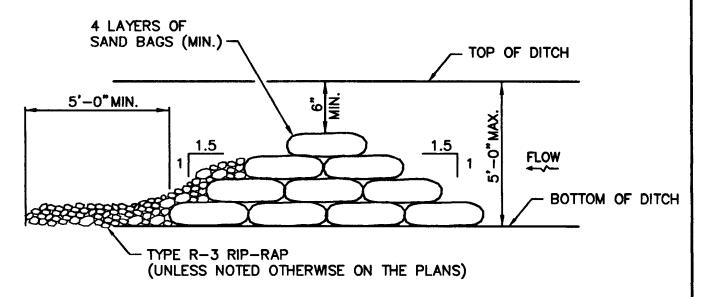
 4. BALES OF HAY TO BE EMBEDDED A MINIMUM OF 6" INTO THE EXISTING GROUND. IF THE EXISTING GROUND IS LEDGE, A 2"-0" WEDGE OF CRUSHED STONE IS TO BE PLACED AGAINST THE UPSTREAM FACE OF THE CHECK DAM.

- 5. HEIGHT OF THE DAM WILL VARY BASED ON HIGH WATER LEVEL.

		RHODE	ISLAND DEPARTMENT OF TRANSPO	RTATION	
NO. BY	DATE		LOG AND HAY CHECK DAM		R.I. STANDARD
		CHIEF ENGINEER THEMSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	9.5.0



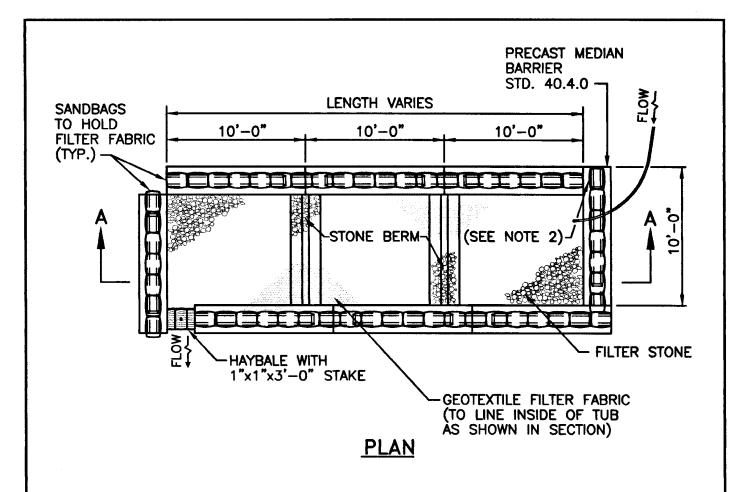
ELEVATION

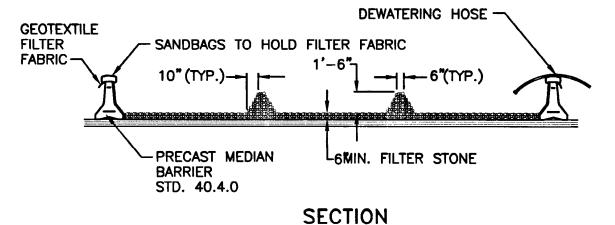


SECTION A-A

 ${\color{red} {\rm NOTE:}}$ Shall be in accordance with section 207 of the R.I. Standard specifications.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS		
NO.	BY	DATE	SAND BAG EROSION CHECK	R.I.
				(STANDARD)
			June 1. Caroli Elment Porker June 15, 1998]∖∖ 9.6.0 <i>]]</i>
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

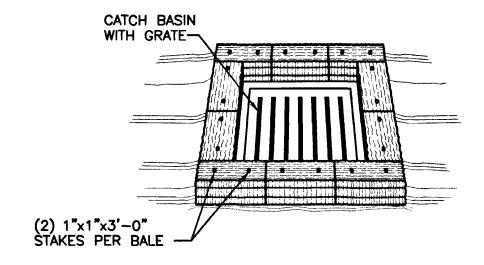


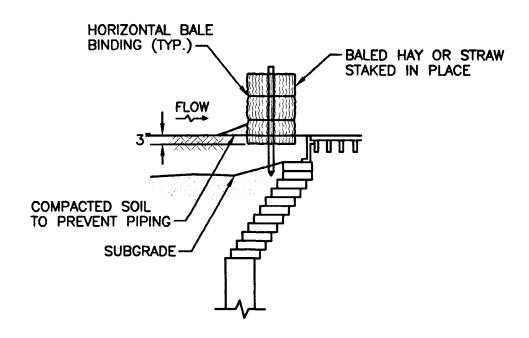


<u> JEC 110</u>

- 1. SHALL BE IN ACCORDANCE WITH SECTION 208 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. PROVIDE ADDITIONAL SAND BAGS AS REQUIRED TO FILL SPACE BETWEEN ADJACENT BARRIERS.

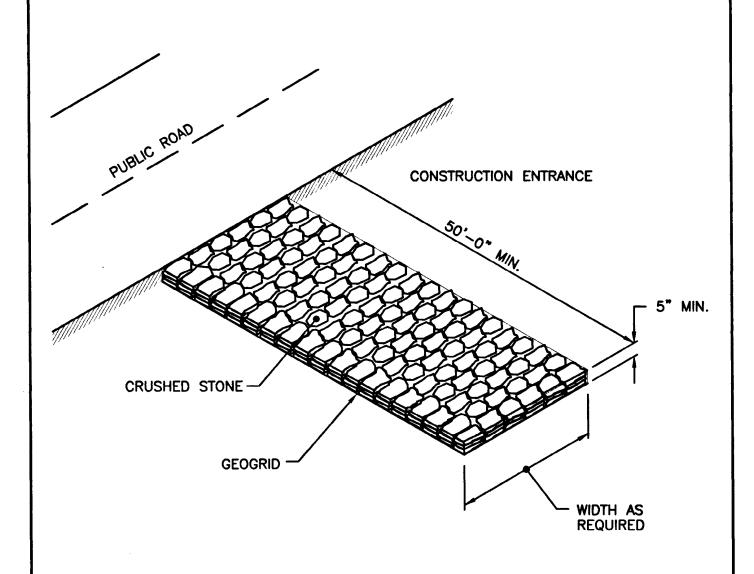
R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY DATE	DEWATERING BASIN	R.I. STANDARD
	CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	9.7.0





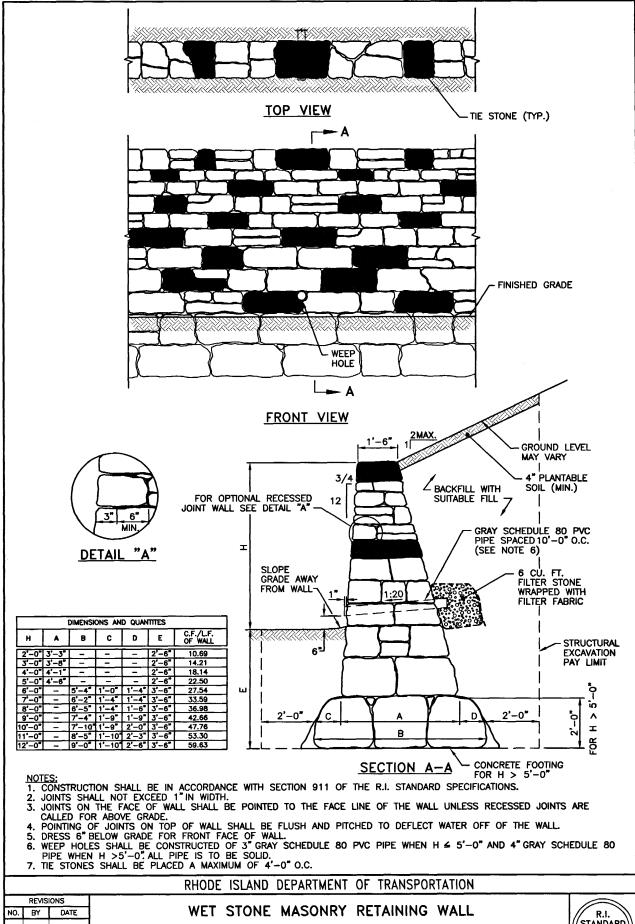
- 1. SHALL BE IN ACCORDANCE WITH SECTION 209 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THIS INLET PROTECTION CAN ALSO BE USED WHEN CONSTRUCTION SEQUENCING REQUIRES A CATCH BASIN TO BE EXPOSED TO SEDIMENT FROM THE SUBGRADE. THIS WILL BE ACHIEVED BY INSTALLING THE BALED HAY AS SHOWN ON THIS DETAIL INTO THE SUBGRADE.
- 3. THE PERIMETER CONFIGURATION OF THE BALED HAY WILL VARY DEPENDING ON THE PARTICULAR TYPE OF CATCH BASIN INLET BEING CONSTRUCTED. THE ENGINEER WILL PROVIDE SPECIFIC DIRECTION IN SUCH CASES.

_	R	HODE ISLAND DI	PARIMENT OF IRA	ANSPORTATION	
REVIS	IONS	BALE	NAY CATCH E	NIDACINI	
BY	DATE				R.I.
		111	LET TROTECTIO	11	//STANDARD\\
		Cont. Conti	Elment Parker A.	JUNE 15, 1998	∖\ 9.8.0 <i> </i>
		CHIP ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	
		REVISIONS	BY DATE BALEI	BALED HAY CATCH E INLET PROTECTIO	BALED HAY CATCH BASIN INLET PROTECTION BY DATE BALED HAY CATCH BASIN INLET PROTECTION JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE ISSUE DATE



NOTE: SHALL BE IN ACCORDANCE WITH SECTION 211 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	IONS		
NO.	BY	DATE	CONSTRUCTION ACCESS	R.I.
				//STANDARD
ļ			Jan A. Cyalli Elment Parker fr. JUNE 15, 1998	\\ 9.9.0 <i> </i>
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



REVISIONS

NO. BY DATE

WET STONE MASONRY RETAINING WALL

STANDARD

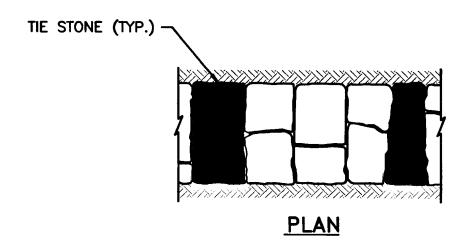
CHIEF DESIGN ENGINEER
THANSPORTATION

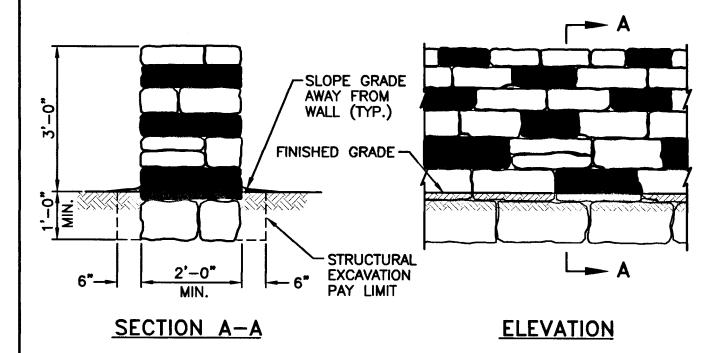
SILE DATE

OF THE DESIGN ENGINEER
THANSPORTATION

SILE DATE

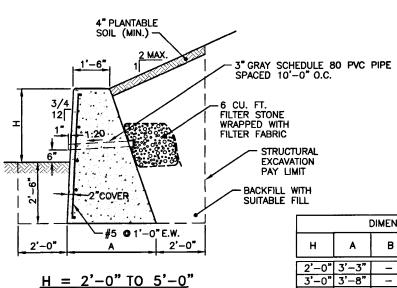
OF THE DESIGN ENGINEER
THANSPORTATION



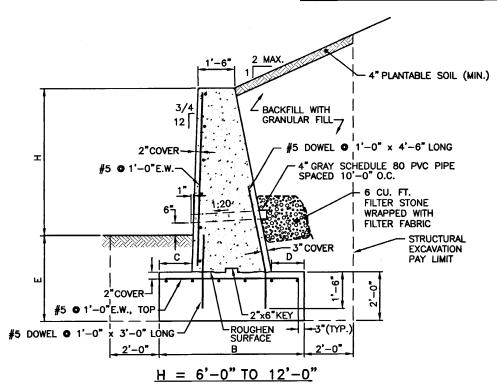


- 1. SHALL BE IN ACCORDANCE WITH SECTION 912 OF THE R.I. STANDARD SPECIFICATIONS. 2. TIE STONES SHALL BE PLACED A MAXIMUM OF 4'-0" O.C.

		R	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	ONS DATE	RUBBLE MASONRY WALL	
		5,2		R.I. STANDARD
			CHIEF DESIGN ENGINEER ISSUE DATE	



DIMENSIONS AND QUANTITIES								
н	A	В	С	D	Ε	C.F./L.F. OF WALL		
2'-0"	3'-3"	_	_	_	2'-6"	10.69		
3'-0"	3'-8"	-	-	-	2'-6"	14.21		
4'-0"	4'-1"	-	-	-	2'-6"	18.14		
5'-0"	4'-6"	-	1	1	2'-6"	22.50		
6'-0"	_	5'-4"	1'-0"	1'-4"	3'-6"	27.54		
7'-0"	_	6'-2"	1'-4"	1'-4"	3'-6"	33.59		
8'-0"	_	6'-5"	1'-4"	1'-6"	3'-6"	36.98		
9'-0"	_	7'-4"	1'-9"	1'-9"		42.66		
10'-0"	_	7'-10"	1'-9"	2'-0"	3'-6"	47.76		
11'-0"		8'-5"	1'-10"	2'-3"	3'-6"	53.30		
12'-0"	_	9'-0"	1'-10"	2'-6"	3'-6"	59.63		



- NOTES:

 1. SHALL BE IN ACCORDANCE WITH SECTION 808 OF THE R.I. STANDARD SPECIFICATIONS.

 2. USE 1/2" PREFORMED JOINT FILLER AND BEVEL EXPOSED EDGES WITH 3/4" CHAMFER.

 3. SEAL BACKFACE WITH 1/4"x1/2" JOINT SEALANT.

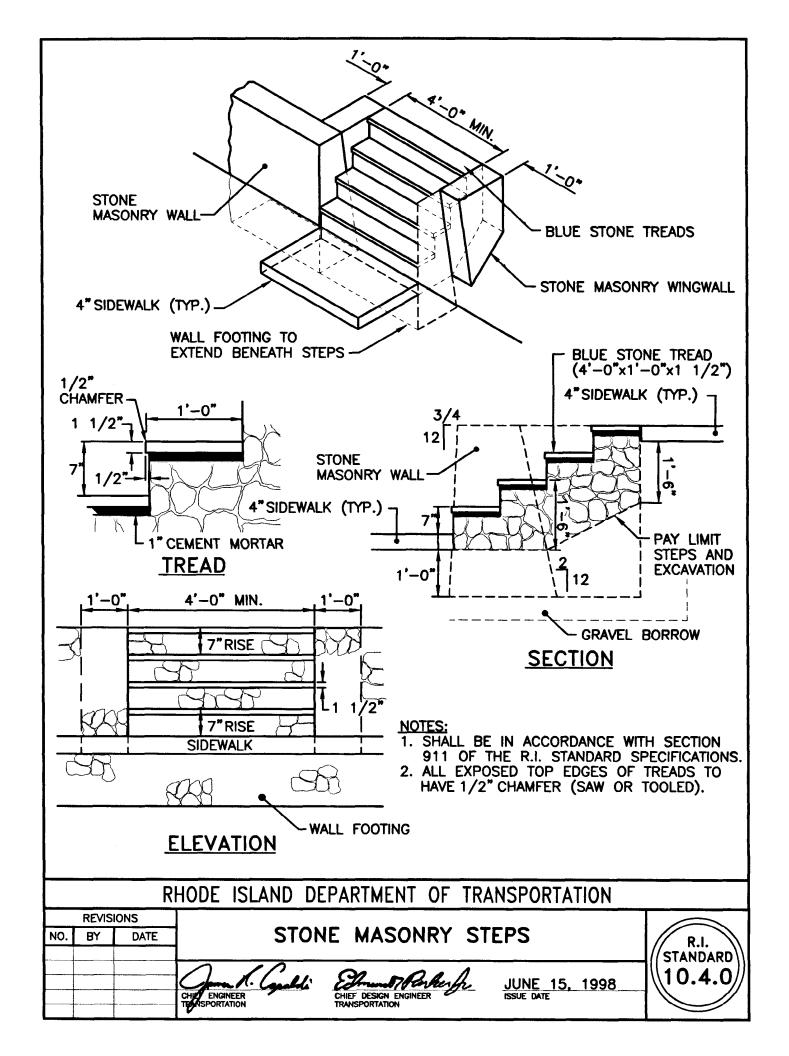
 4. SURFACE RUB EXPOSED FACE AND TOP.

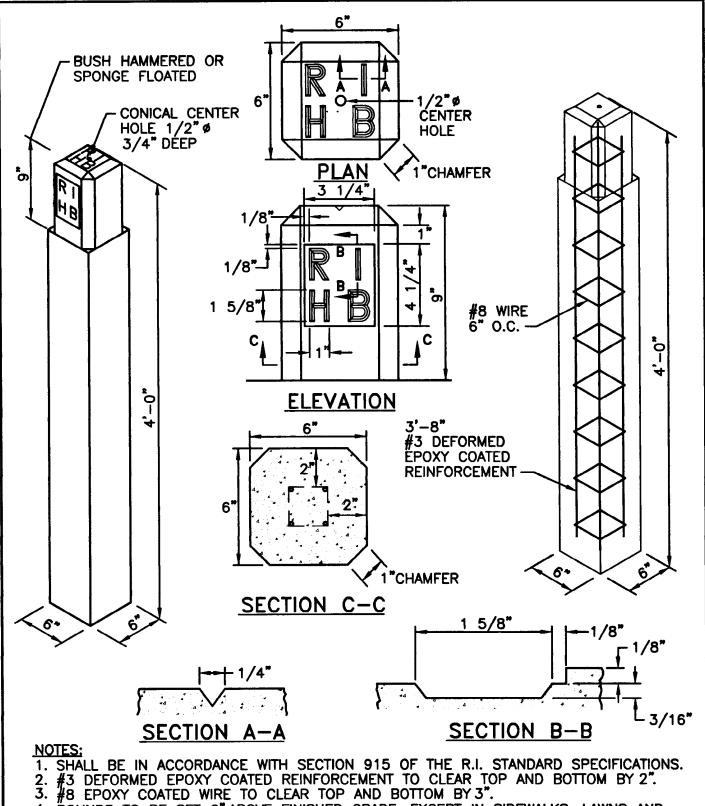
 5. ALL REINFORCING TO BE EPOXY COATED.

 6. PROVIDE EXPANSION JOINTS EVERY 25'-0" IN STEMS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

F	REVISIONS O. BY DATE	(CONCRETE RETAINING WALL		R.I. STANDARD
_		CHAFT ENGINEER THANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	10.3.0

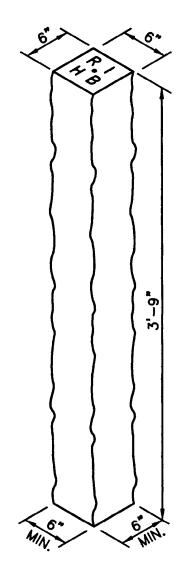


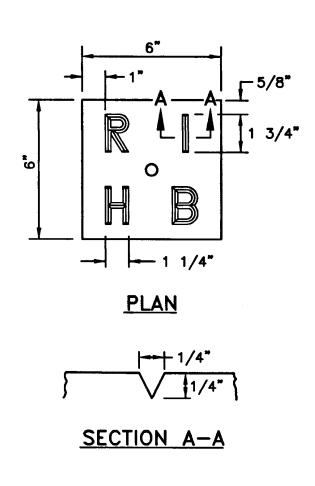


4. BOUNDS TO BE SET 6"ABOVE FINISHED GRADE, EXCEPT IN SIDEWALKS, LAWNS AND DRIVEWAYS WHERE THEY SHALL BE SET FLUSH WITH FINISHED GRADE.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

	REVISIONS						
NO.	BY	DATE	CONC	CONCRETE HIGHWAY BOUND			
			CHIP ENGINEER THASPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998	14.1.0	

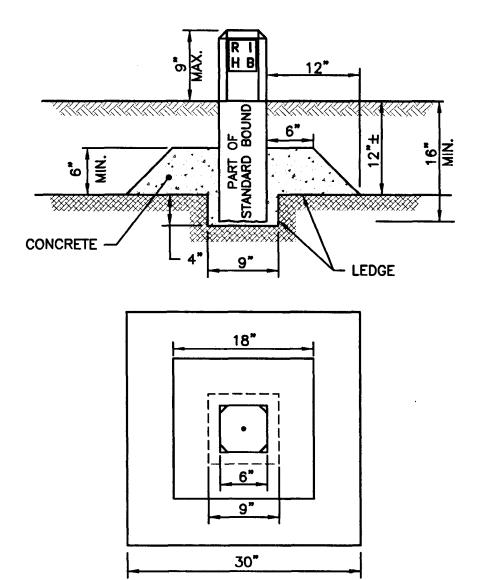




- 1. SHALL BE IN ACCORDANCE WITH SECTION 915 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. BOUND TO BE QUARRY SPLIT FROM FINE GRAIN GRANITE FREE FROM NATURAL FRACTURES, SEAMS, LAMINATIONS, CRACKS OR IMPURITIES.

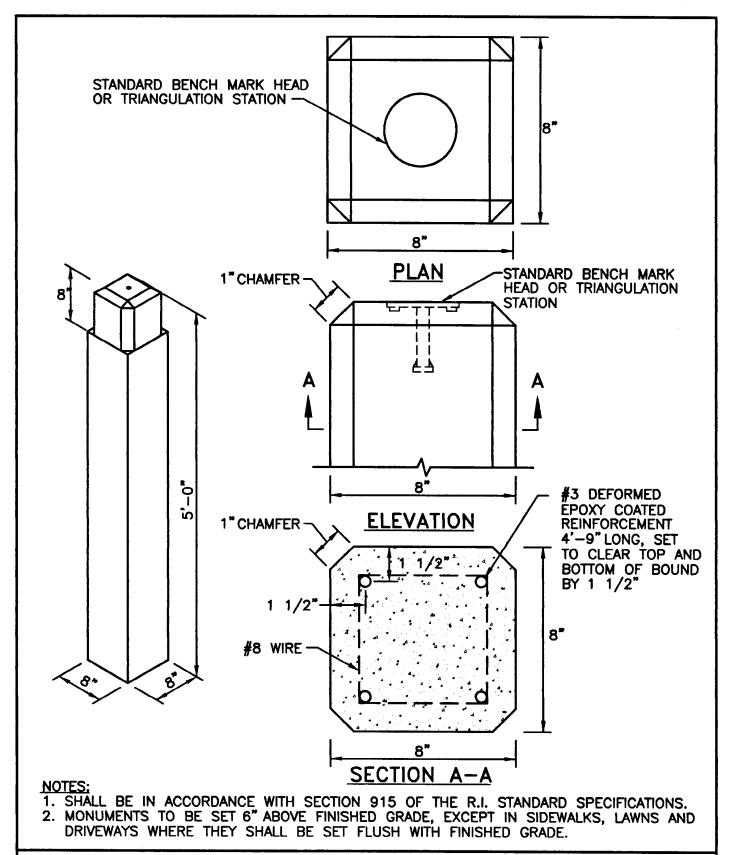
 3. TOP SURFACE OF BOUND TO BE DRESSED OR SAWED.
- 4. CONICAL DRILL HOLE IN CENTER OF TOP TO BE 1/4" & AND 3/4" DEEP.
- 5. BOTTOM TO BE AT LEAST 6" SQUARE AND FLAT.
- 6. LETTERS "RIHB" ON TOP TO BE OF DIMENSIONS AS SHOWN.
- 7. BOUNDS TO BE SET 6"ABOVE FINISHED GRADE, EXCEPT IN SIDEWALKS, LAWNS AND DRIVEWAYS WHERE THEY SHALL BE SET FLUSH WITH FINISHED GRADE.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS		
NO.	BY	DATE	GRANITE HIGHWAY BOUND	R.I.
				STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	\\14.2.0 //
			CHIEF PENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	
			TRANSPORTATION TRANSPORTATION	



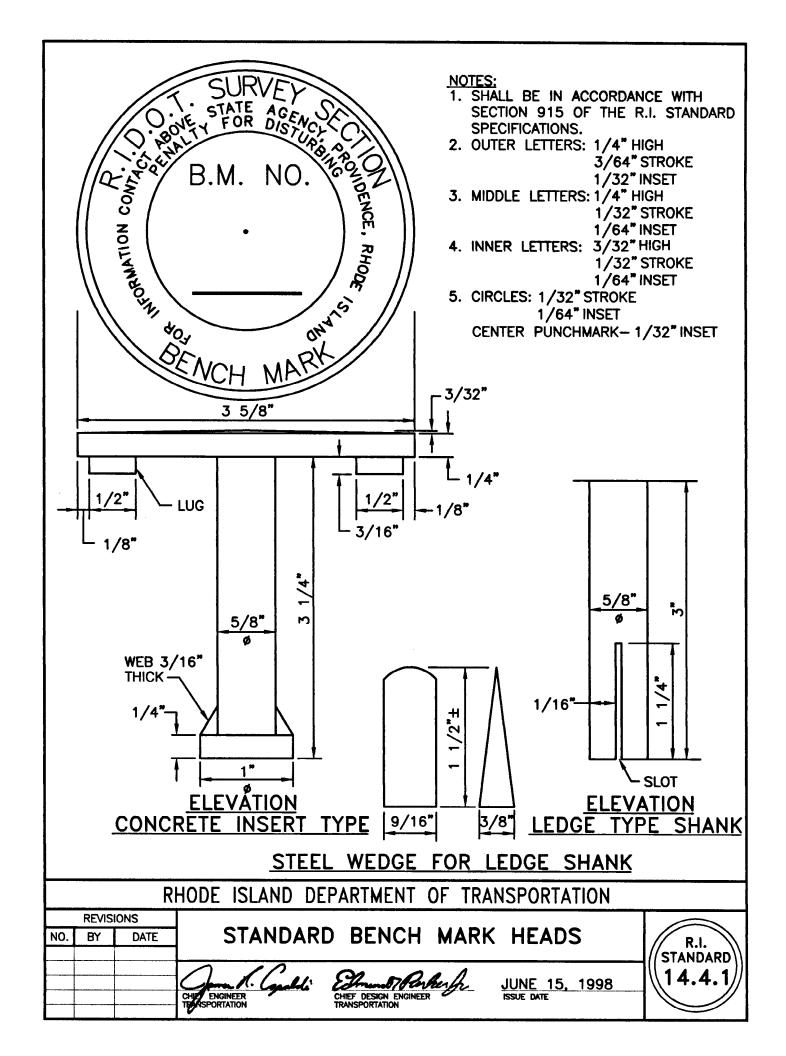
- 1. SHALL BE IN ACCORDANCE WITH SECTION 915 OF THE R.I. STANDARD SPECIFICATIONS.
 2. SEE STD. 14.1.0 OR STD. 14.2.0 FOR DETAILS OF BOUND.
 3. 9" SQUARE HOLE, 4" DEEP TO BE CHIPPED IN LEDGE.
 4. BOUNDS TO BE SET 6" ABOVE FINISHED GRADE, EXCEPT IN SIDEWALKS, LAWNS AND DRIVEWAYS WHERE THEY SHALL BE SET FLUSH WITH FINISHED GRADE.

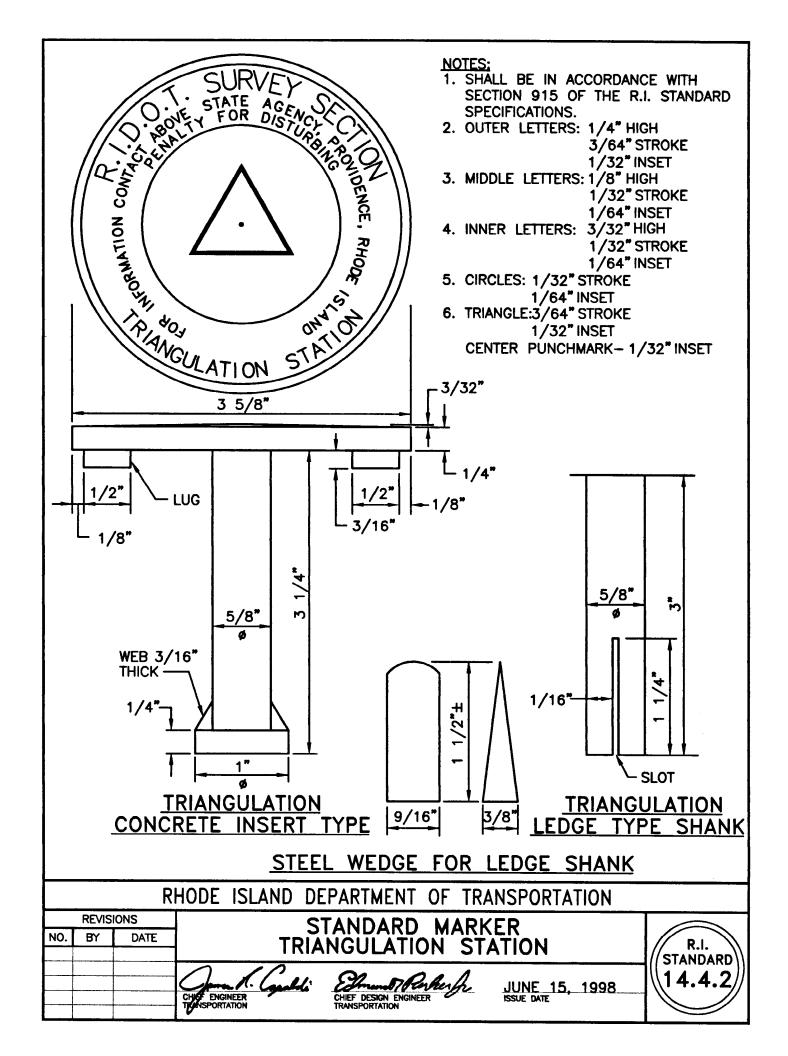
			RHODE ISLAND	DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS		HIGHWAY BOUND	
NO.	BY	DATE	SET	IN CONCEALED LEDGE	R.I. STANDARD
			and Carl	U' Elmot Parker JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE	14.3.0
			CHIL ENGINEER THANSPORTATION	CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION	

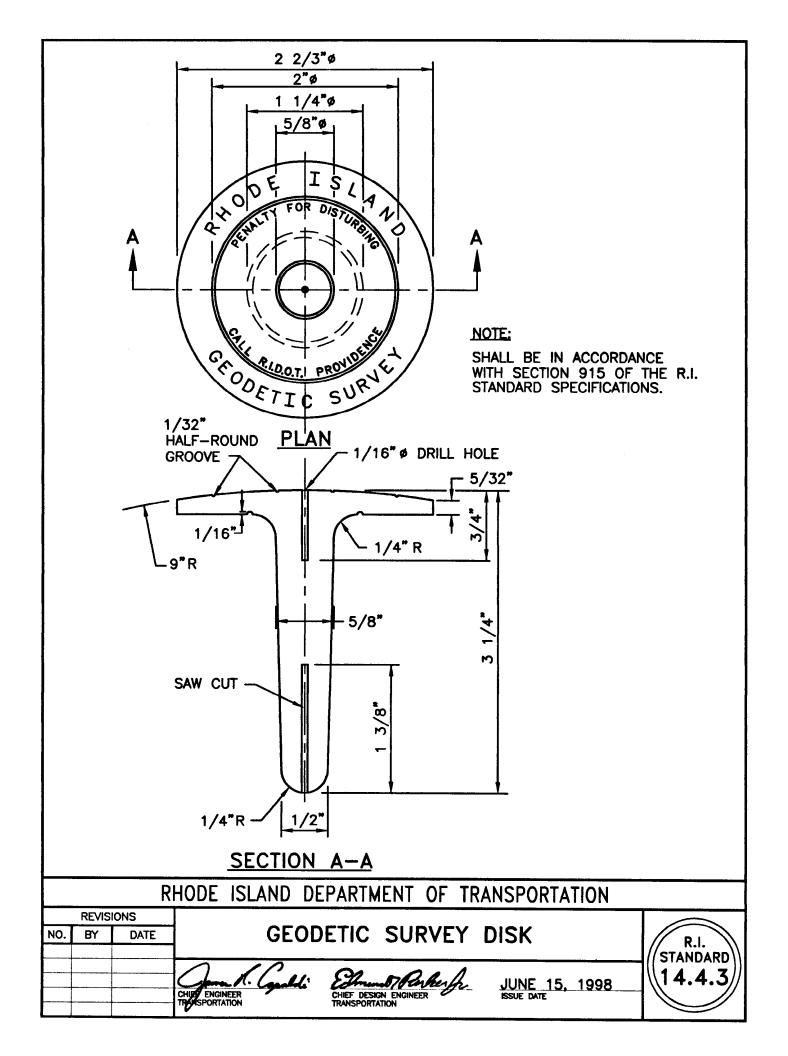


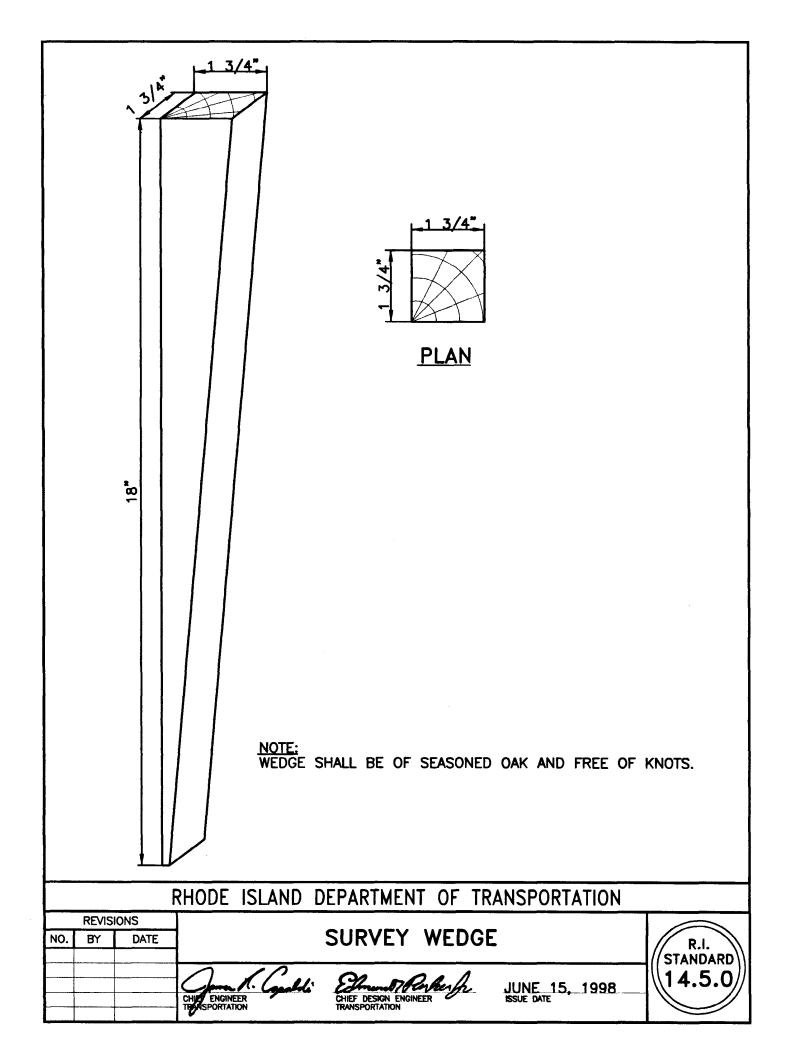
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

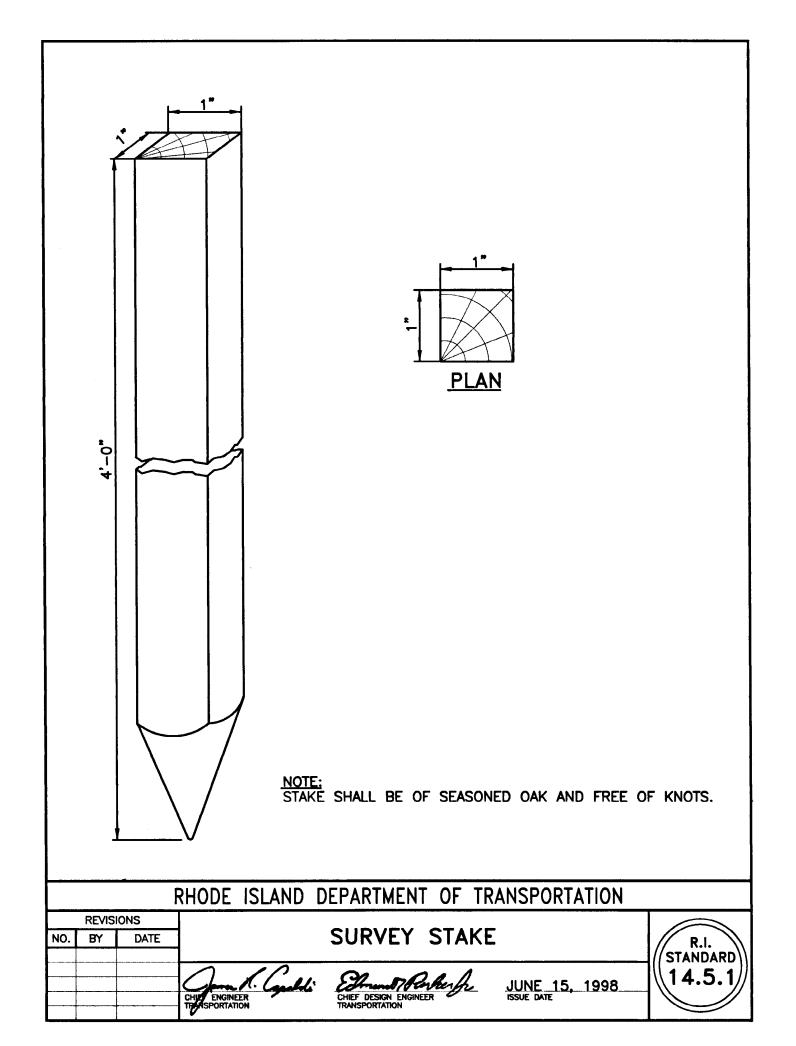
NO.	REVIS BY	DATE	REINFORCED PRECISE LEVEL	CONCRETE MONUMENT	R.I. STANDARD
			CHE ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 issue date	14.4.0

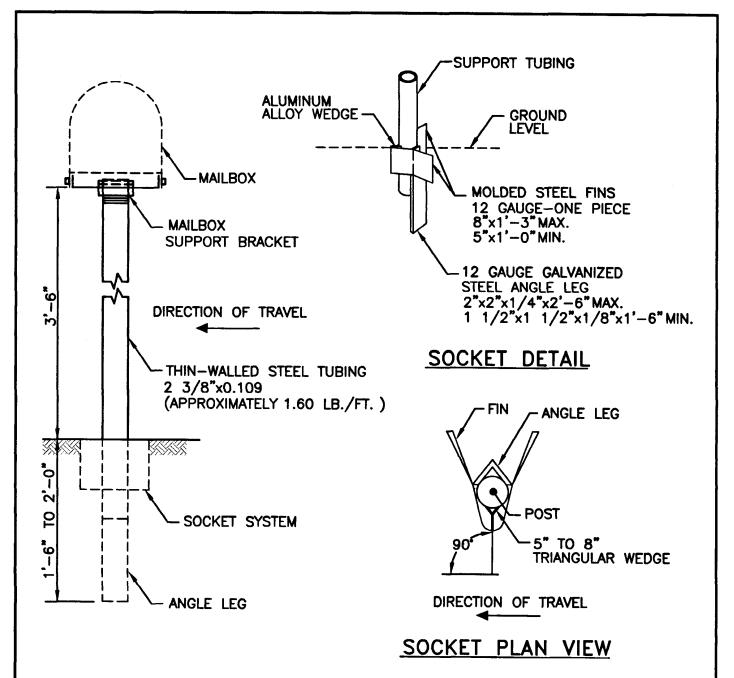








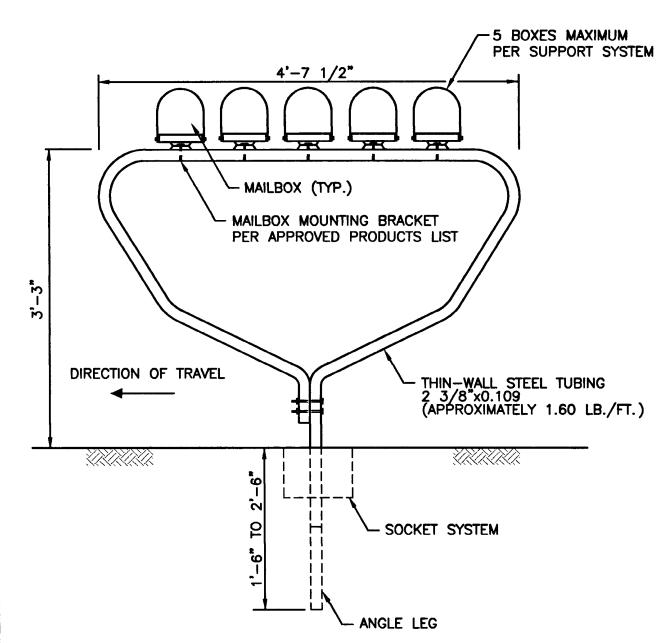




- 1. SHALL BE IN ACCORDANCE WITH SECTION 917 OF THE R.I. STANDARD SPECIFICATIONS.
 2. CONTRACTOR WILL REPLACE EXISTING BOX IF BOX DOES NOT CONFORM TO U.S. POSTAL SERVICE SPECIFICATIONS. CONTRACTOR SHALL USE U.S. POSTAL SERVICE BOX 1, 1A OR 2.
- 3. LOCATION OF POSTS TO BE SET UNDER ADVICE OF LOCAL MAIL CARRIER.
- 4. ALL METAL SURFACES (INCLUDING MAILBOX) AND HARDWARE SHALL BE GALVANIZED WITH A MINIMUM GALVANIZED COATING OF 1.9 MILS.
- 5. WHEN MORE THAN ONE SUPPORT SYSTEM IS TO BE INSTALLED, THE MINIMUM SPACING OF SUPPORT POSTS SHALL BE 3'-0".

 6. USE 8-0.1875"x0.75"BOLTS WITH LOCKWASHERS FOR ALL SIZE BOXES (4 EACH SIDE).

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	ONS	DOCT AND MOUNTING	
NO.	BY	DATE	POST AND MOUNTING	R.I.
			FOR RURAL MAILBOX	J/STANDARD
			CHIEF DESIGN ENGINEER JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE	15.1.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



- 1. SHALL BE IN ACCORDANCE WITH SECTION 917 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. CONTRACTOR SHALL REPLACE EXISTING BOX IF IT DOES NOT CONFORM TO U.S. POSTAL
- SERVICE SPECIFICATIONS. CONTRACTOR SHALL USE U.S. POSTAL SERVICE BOX 1, 1A OR 2.

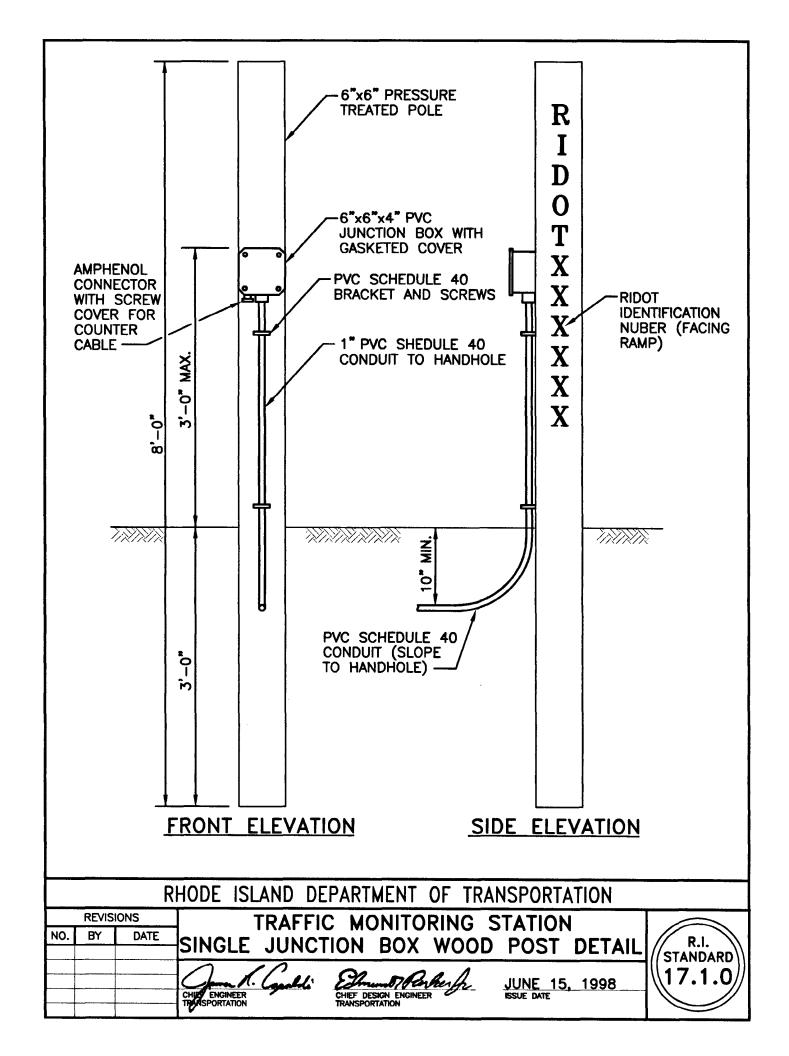
 3. LOCATION OF POSTS TO BE SET UNDER THE ADVICE OF THE LOCAL MAIL CARRIER.

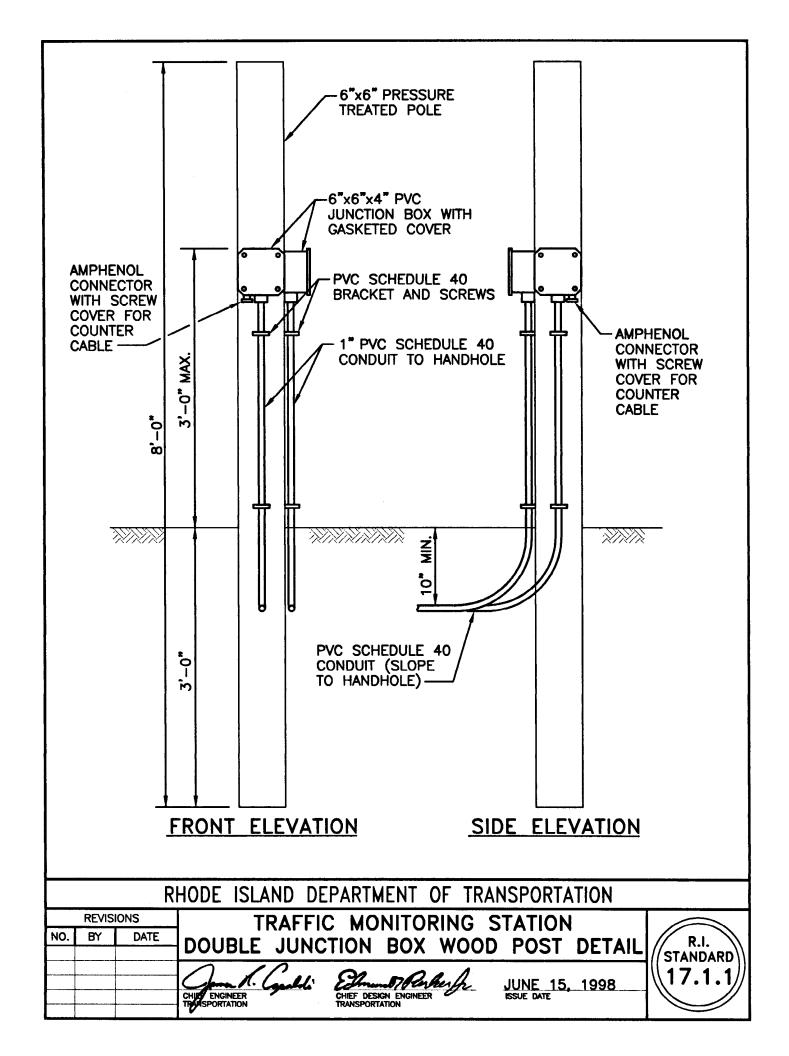
 4. ALL METAL SURFACES (INCLUDING MAILBOX) AND HARDWARE SHALL BE GALVANIZED WITH A MINIMUM GALVANIZED COATING OF 1.9 MILS.

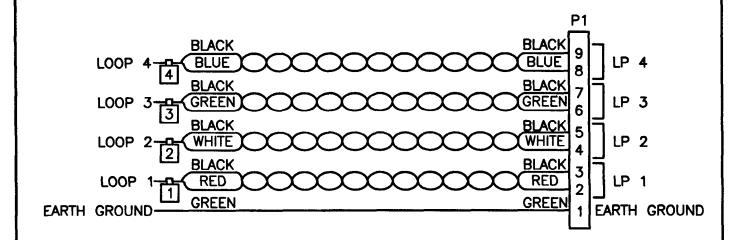
 5. WHEN MORE THAN ONE SUPPORT SYSTEM IS TO BE INSTALLED THE MINIMUM SPACING OF THE SUPPORT BOSTS SHALL BE 4'-7 1/2"
- OF THE SUPPORT POSTS SHALL BE 4'-7 1/2".
- 6. FOR SOCKET SYSTEM DETAILS SEE STD. 15.1.0.

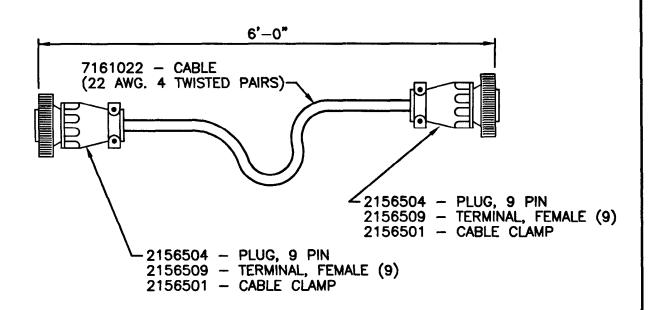
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	REVIS	IONS	POST AND MULTIPLE MOUNTINGS	
NO.	BY	DATE	FOR RURAL MAILBOXES	R.I.
			10K KOKAL MAILDOXLS	((STANDARD)
			Carle Carle Daniel Branch JUNE 15, 1998	\\15.2.0 <i> </i>
			CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

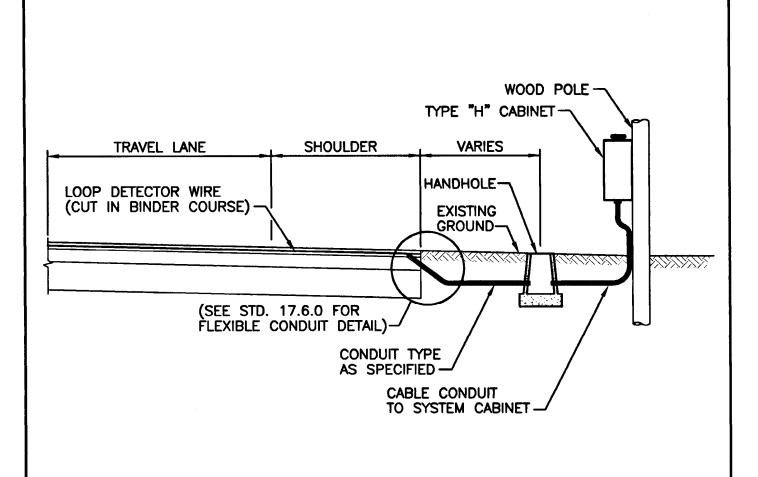




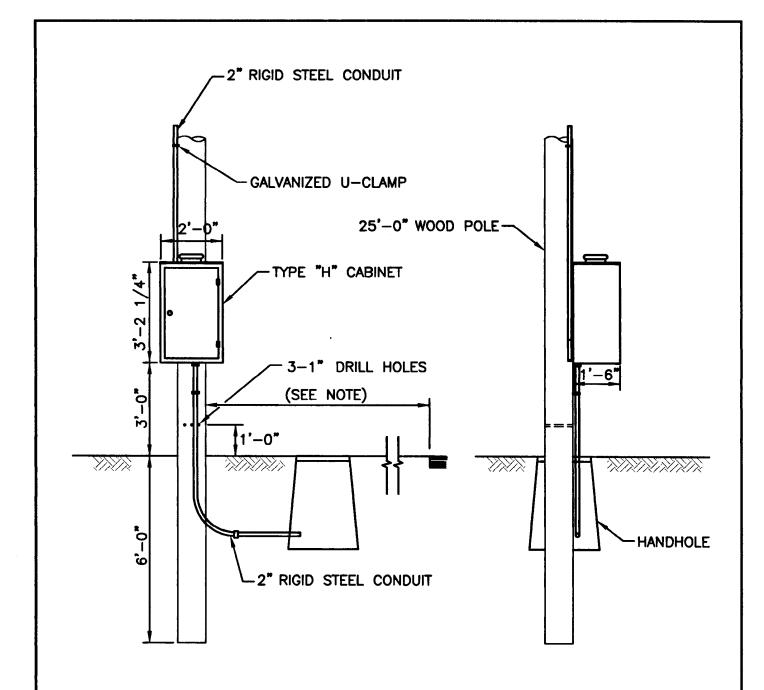




		R	HODE ISLAND DI	EPARTMENT OF TRA	ANSPORTATION	
	REVIS		TRAFFI	C MONITORING	STATION	
NO.	BY	DATE	PORTA	BLE COMPUTER	CABLE	R.I. STANDARD
			and Carlli	Elmor Parker fr	JUNE 15, 1998	17.2.0
			CHILD ENGINEER THASPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	



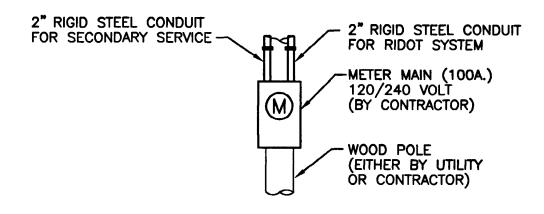
		R	HODE ISLAND D	EPARTMENT OF TR	RANSPORTATION	
	REVIS	IONS	TRAFFI	C MONITORING	STATION	
NO.	BY	DATE	POLI	E MOUNTED CA	RINFT	R.I.
<u> </u>			100			//STANDARD\
			Chank Carlli	CHIEF DESIGN ENGINEER	JUNE 15, 1998	\\17.3.0 <i> </i>
			CHILD ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	



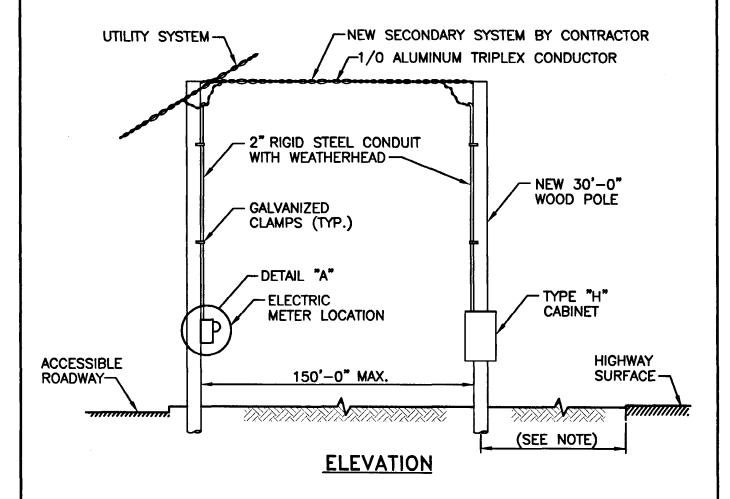
FRONT ELEVATION SIDE ELEVATION

- 1. TYPE "H" CABINET MUST BE LOCATED A MIN. OF 30'-0" FROM PAVED HIGHWAY SURFACE OR LOCATED BEHIND A PROTECTIVE BARRIER.
- 2. PROVIDE WEATHER HEAD AT TOP OF POLE.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	TRAFFIC MONITORING STATION	
NO.	BY	DATE	TRAFFIC MONITORING STATION TYPE "H" CABINET POST MOUNTED INSTALLATION	R.I.
				(STANDARD)
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	\\17.3.1 <i> </i>
			CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

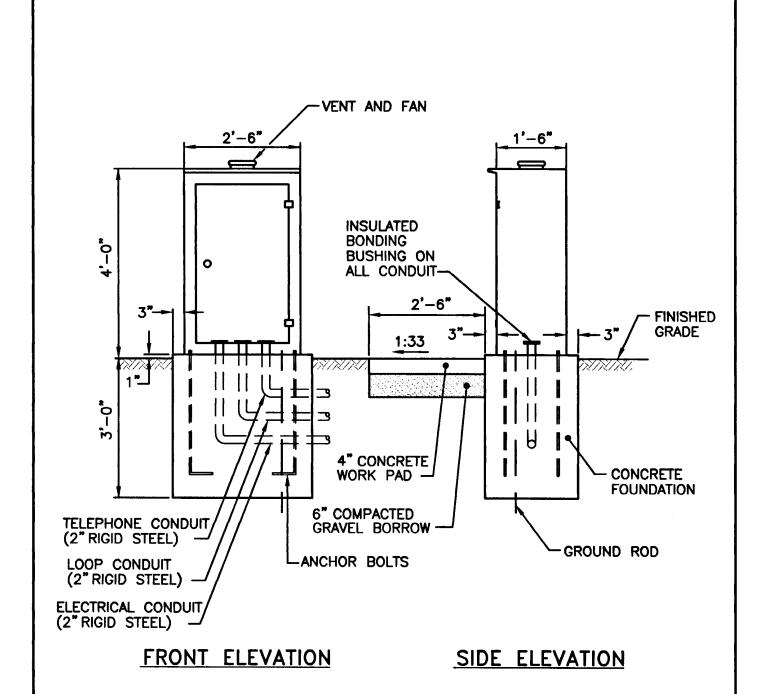


DETAIL "A"



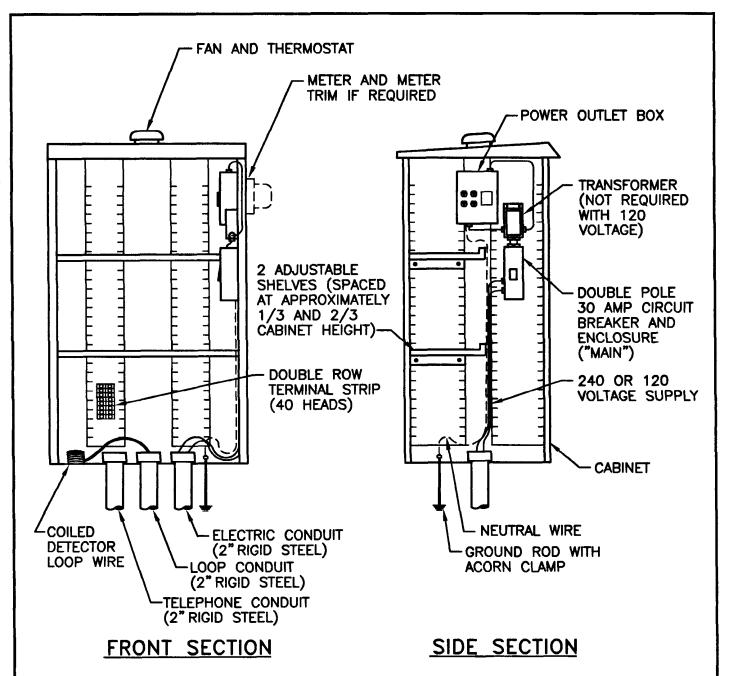
NOTE: TYPE "H" CABINET MUST BE LOCATED A MINIMUM OF 30'-0" FROM PAVED HIGHWAY SURFACE OR LOCATED BEHIND A PROTECTIVE BARRIER.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS NO. BY DATE TYPE "H" CABINET — ELECTRIC SERVICE CHIEF DESIGN ENGINEER THANSPORTATION THANSPORTATION THANSPORTATION CHIEF DESIGN ENGINEER THANSPORTATION TRANSPORTATION R.I. STANDARD 17.3.2



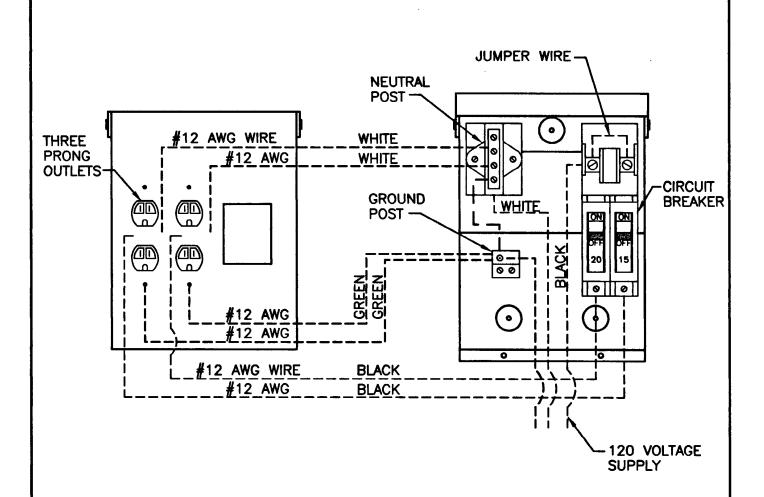
NOTE:
GASKET AND/OR CAULKING TO BE APPLIED BETWEEN CABINET AND FOUNDATION TO PROVIDE A PERMANENT WEATHERTIGHT SEAL.

<u> </u>		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	TRAFFIC MONITORING STATION	
NO.	BY	DATE	CONTROLLER CABINET	R.I.
			GROUND MOUNTED INSTALLATION	STANDARD
			CHIEF PROINTER CHIEF DESIGN ENGINEER ISSUE DATE 15, 1998	17.4.0
			CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



- 1. TRANSFORMER MUST BE WIRED TO ALLOW 120 SECONDARY VOLTAGE AT POWER OUTLET BOX.
- 2. WIRING SHOWN WITHOUT METER. IF METER IS REQUIRED, WIRE METER BETWEEN CONDUIT AND "MAIN."
- 3. 3/4" MARINE PLYWOOD TO BE USED AS BACKING TO MOUNT ACCESSORIES.
- 4. DOUBLE POLE BREAKER SWITCH REQUIRED FOR 220 VOLTAGE ONLY. SINGLE POLE BREAKER WITH ENCLOSURE MAY BE USED FOR 110 VOLTAGE.
- 5. INSTALLATION TO INCLUDE TELEPHONE JACK, PULL CHAIN LIGHT AND SURGE ARRESTOR.
- 6. PROVIDE 60 AMP SERVICE.

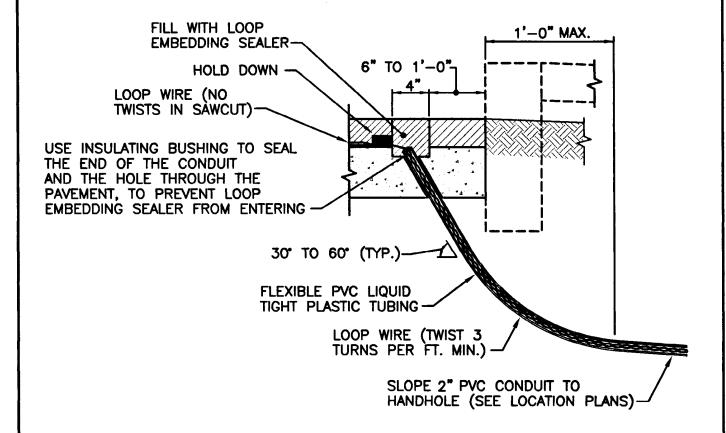
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	TRAFFIC MONITORING STATION	
NO.	BY	DATE	CONTROLLER CABINET WIRING DETAILS - INTERIOR	R.I.
-				((STANDARD)
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	\\1
			CHIP ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



COVER AND OUTLETS

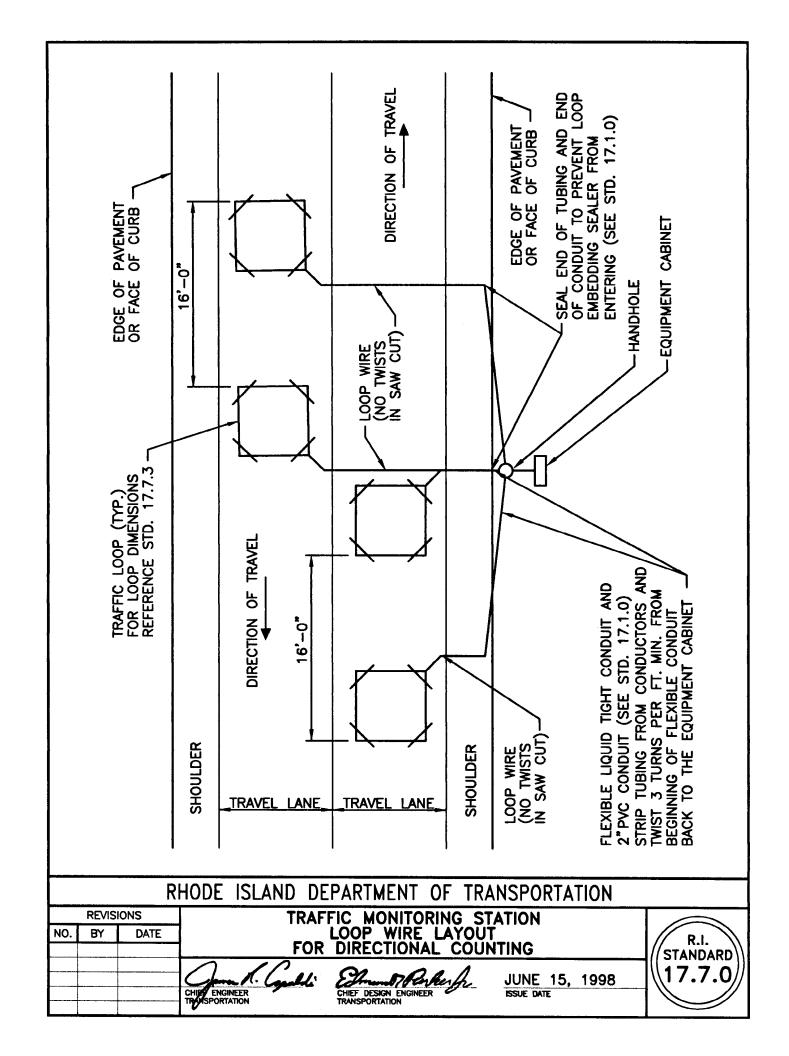
POWER OUTLET BOX

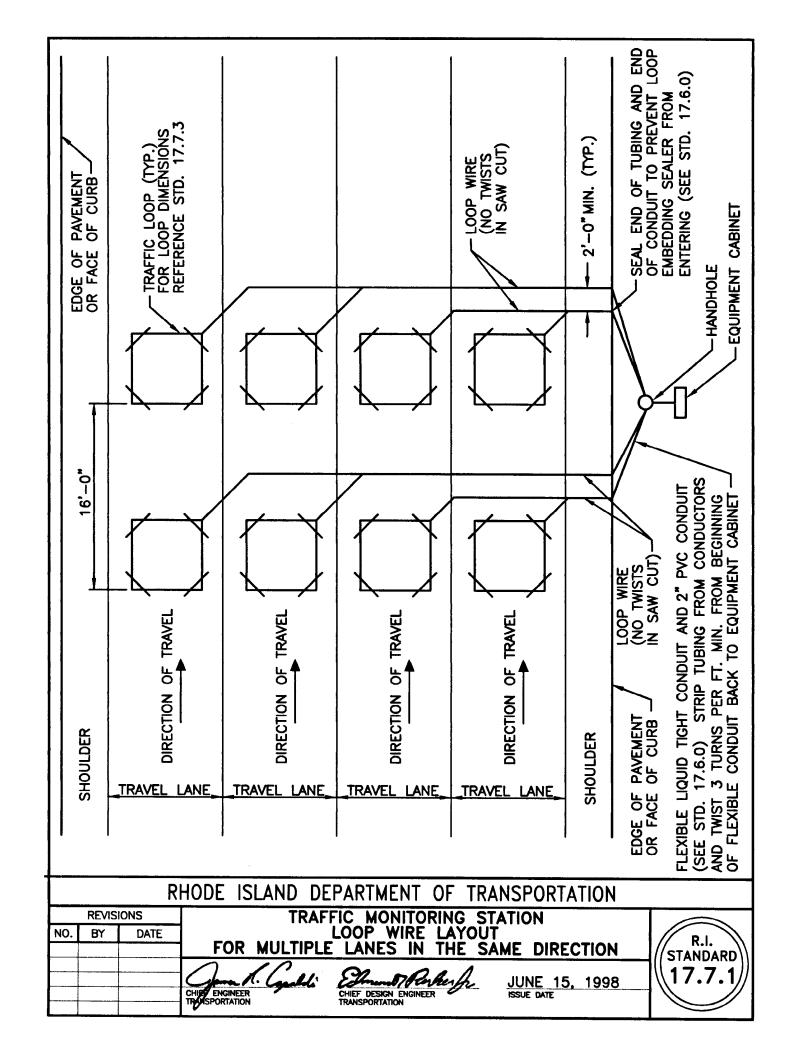
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	IONS DATE	TRAFFIC MONITORING STATION POWER OUTLET BOX	R.I. STANDARD
			CHIEF DESIGN ENGINEER THANSPORTATION SUBJECT 15, 1998 ISSUE DATE	17.5.0

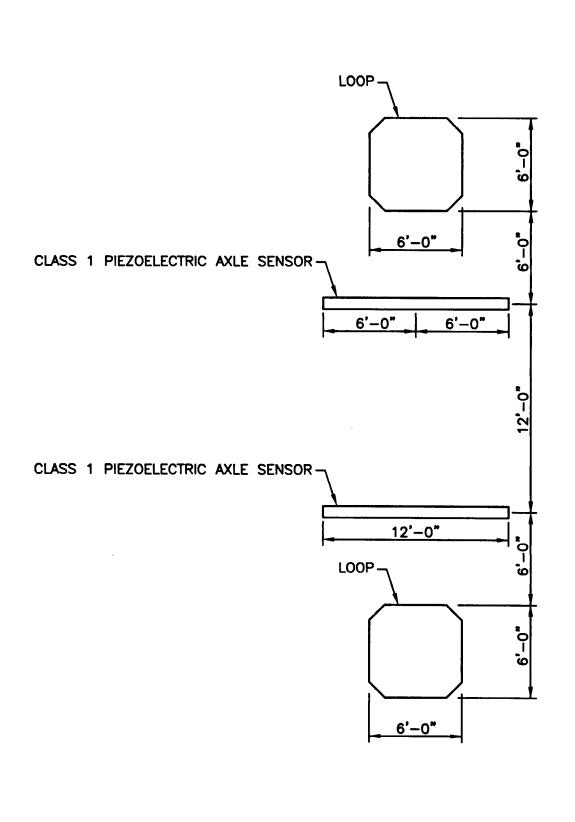


- 1. DO NOT USE SHARP OBJECTS TO HOLD DOWN WIRE.
- 2. CURB DETAIL IS SHOWN BY DASHED LINES, RUN THE CONDUIT UNDER THE CURB.

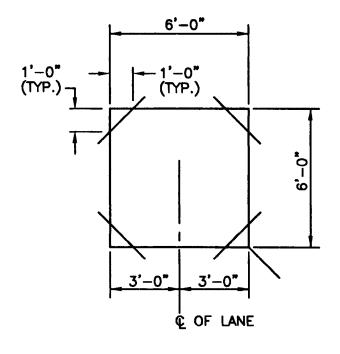
L		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	TRAFFIC MONITORING STATION	
NO.	BY	DATE	FLEXIBLE CONDUIT INSTALLATION	R.I. STANDARD
			CHIEF ENGINEER THUSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	17.6.0



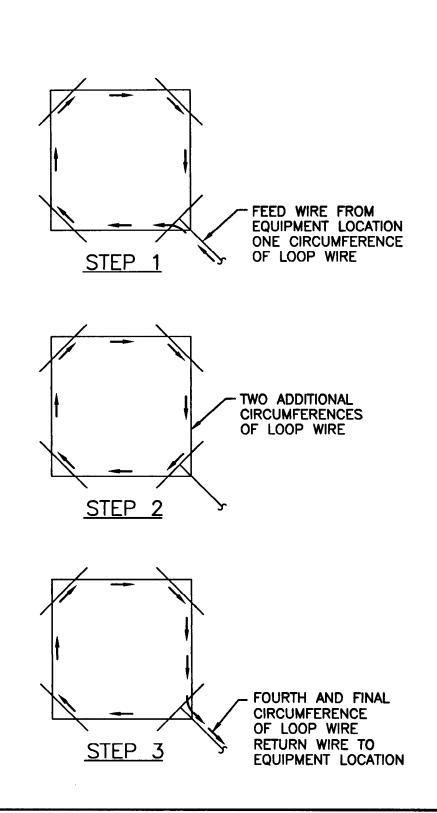




		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS			TRAFFIC MONITORING STATION	
NO.	BY	DATE	AXLE SENSOR AND LOOP LAYOUT	R.I.
			AREE SENSON AND EOOI LATOUT	//STANDARD\\
			CHIP ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	∖∖17.7.2 <i> </i>
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

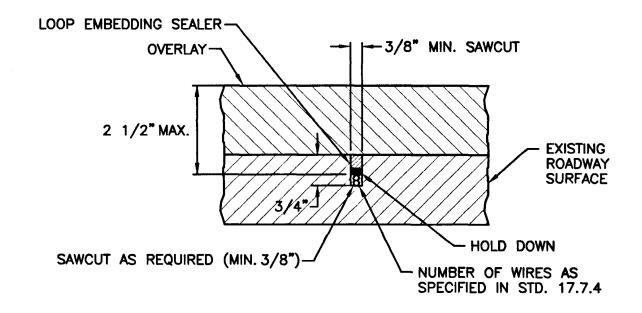


		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS			TRAFFIC MONITORING STATION	
NO.	BY	DATE	LOOP DIMENSIONS	R.I.
			LOOP DIMENSIONS	//STANDARD
			CHU ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	\\17.7.3 //
			CHUP ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



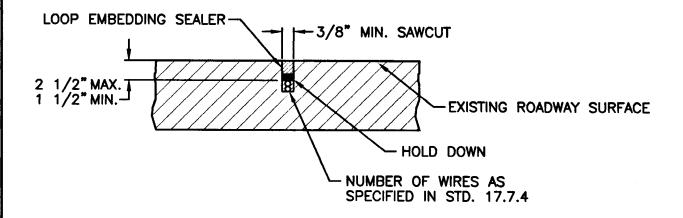
RHODE ISLAND DEPARTMENT OF TRANSPORTATION

	REVIS		TRAFFI	C MONITORING	STATION	
NO.	BY	DATE	LOOF	WIRE INSTALL		R.I. STANDARD
			CHUS ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 issue date	17.7.4



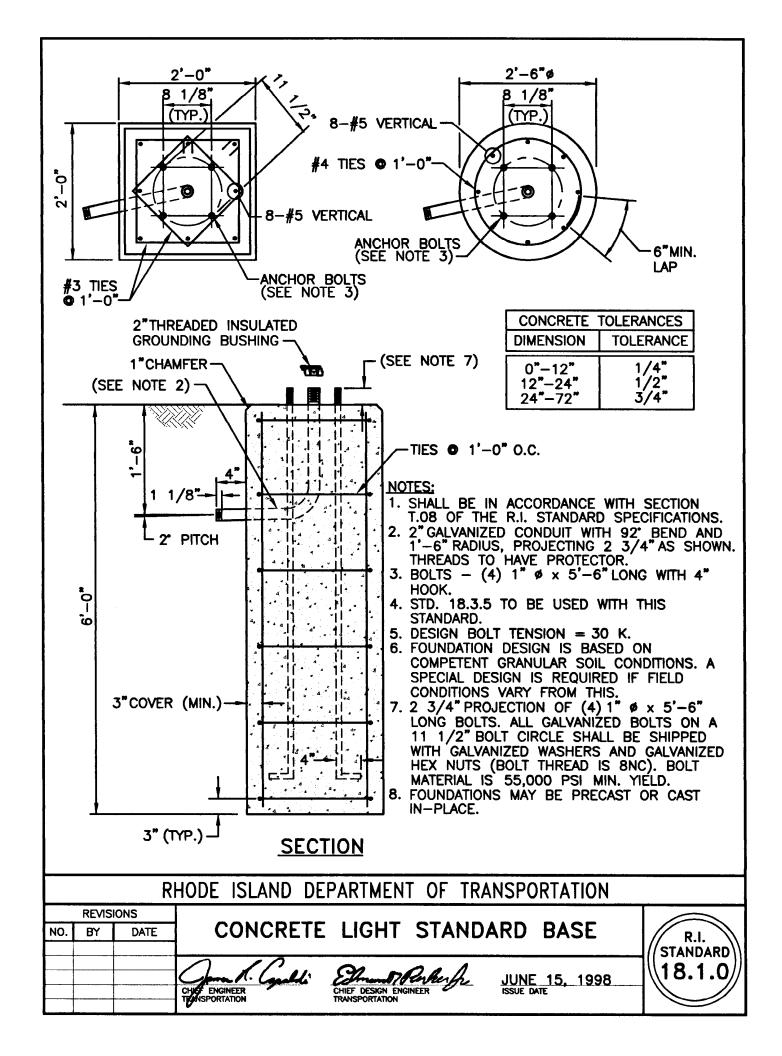
USE SHORT (2" TYP.) PIECES OF OPEN CELLED POLYURETHANE BACKER ROD FOAM SEALER STRIPS AT 2'-0" CENTERS TO HOLD LOOP WIRES IN PLACE UNTIL SEALER SETS. DO NOT USE SHARP OBJECTS TO HOLD WIRE DOWN.

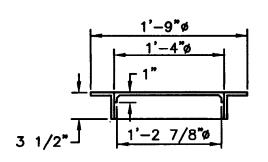
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
<u></u>	REVIS	IONS	TRAFFIC MONITORING STATION	
NO.	BY	DATE	SAWCUT CROSS-SECTION	R.I.
			WITH A PAVEMENT OVERLAY	_//STANDARD\\
			Jank. Carlli Elmor Parkerfr JUNE 15, 1998	 \\17.7.5 <i> </i>
			CHIL ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE THATSPORTATION TRANSPORTATION	



USE SHORT (2" TYP.) PIECES OF OPEN CELLED POLYURETHANE BACKER ROD FOAM SEALER STRIPS AT 2'-0" CENTERS TO HOLD LOOP WIRES IN PLACE UNTIL SEALER SETS. DO NOT USE SHARP OBJECTS TO HOLD WIRE DOWN.

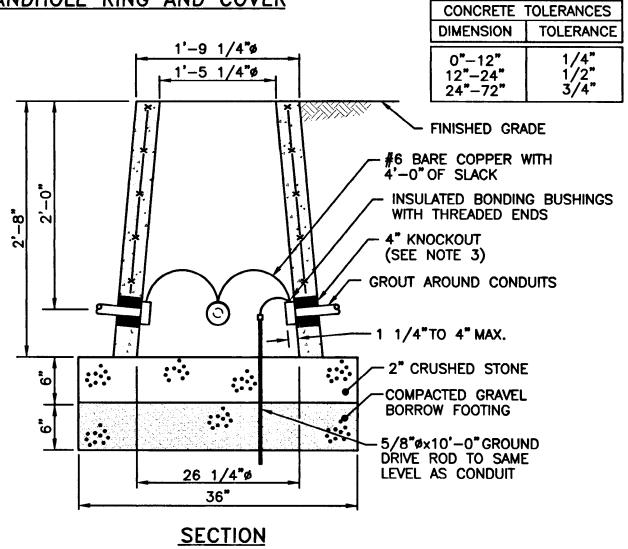
		R	HODE ISLAND DE	EPARTMENT OF TR	ANSPORTATION	
<u> </u>	REVIS	IONS	TRAF	FIC MONITORING S	TATION	
NO.	BY	DATE	SA	NWCUT CROSS—SEC	TION	R.I.
			WITHO	OUT A PAVEMENT (OVERLAY	//STANDARD\\
			Jank. Carlli	CHIEF DESIGN ENGINEER	JUNE 15, 1998	17.7.6
			CHIEF ENGINEER TRAISPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	





- 1. SHALL BE IN ACCORDANCE WITH SECTION T.05 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. COVER TO HAVE DIAMOND SURFACE AND THE WORD "ELECTRIC" FOR ELECTRIC HANDHOLES, "SIGNAL" FOR SIGNAL HANDHOLES AND "COMM." FOR TELEPHONE HANDHOLES.
- 3. 4" KNOCKOUTS ARE TO BE PROVIDED ON ALL FOUR SIDES OF THE HANDHOLE. FOLLOWING CONDUIT INSTALLATION THE CONTRACTOR SHALL SEAL AROUND CONDUIT ENTRANCES WITH CEMENT.
- 4. MINIMUM REQUIRED CONCRETE REINFORCEMENT = 0.058 SQ. IN./LIN. FT. (EACH WAY).

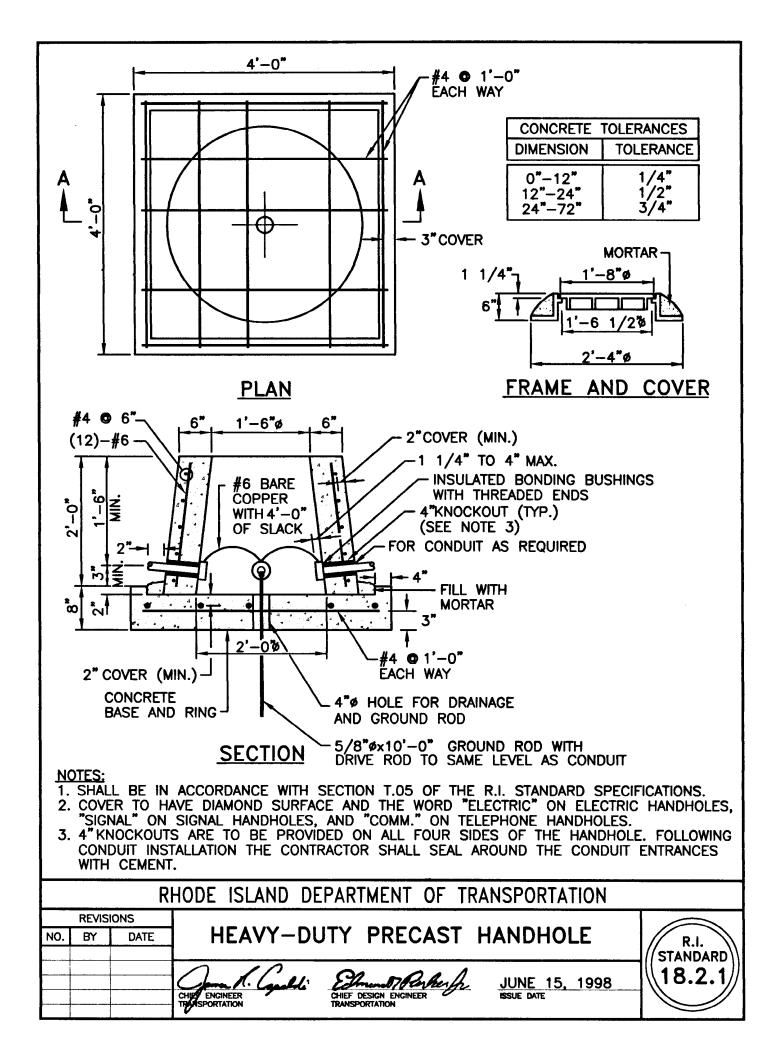
SECTION = 0. HANDHOLE RING AND COVER

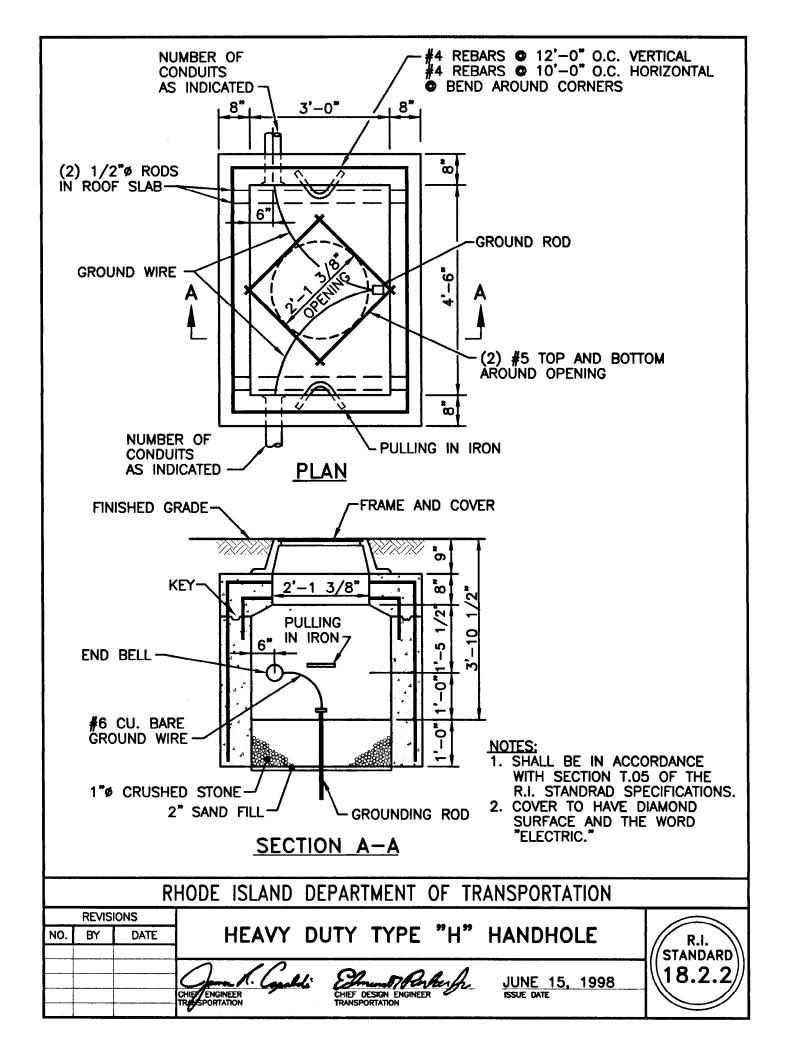


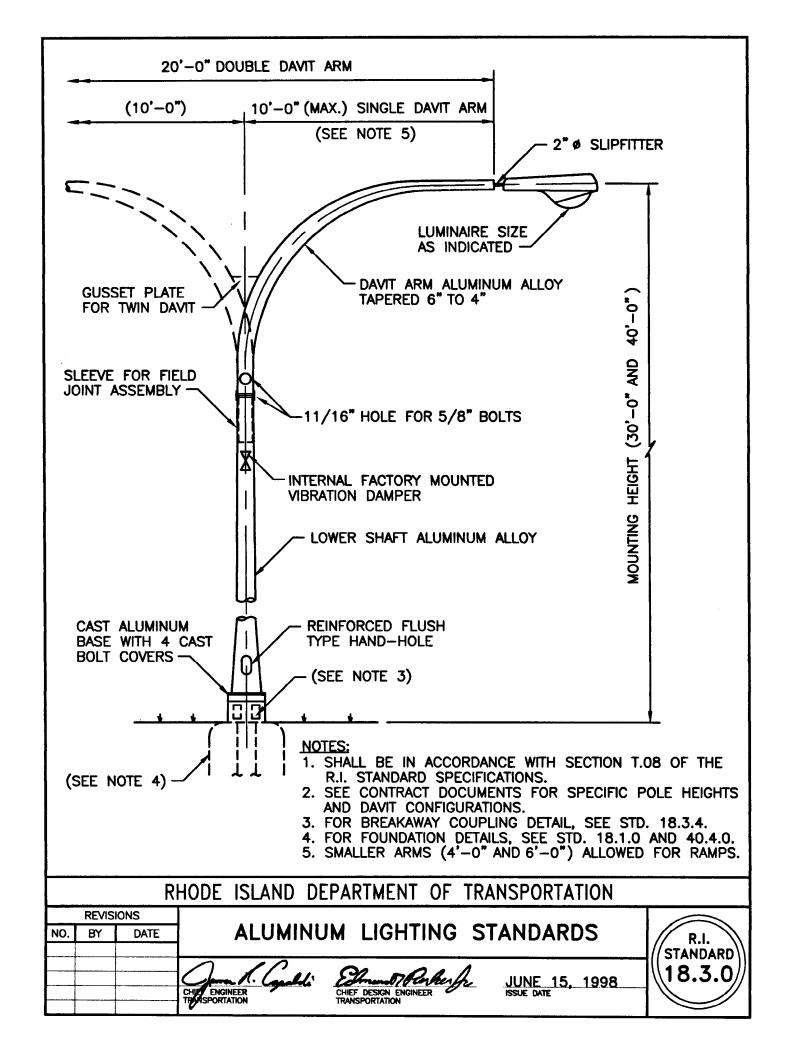
HANDHOLE TYPE "A"

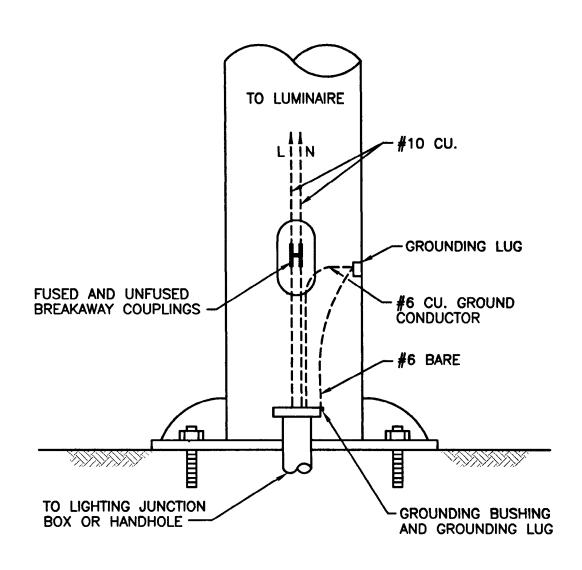
RHODE	ICI VND	DEDARTMENT	OF	TRANSPORTATION
NIIODL	ISLAND	DELANIMENT	VΓ	INAMOPORTATION

NO.	REVIS BY	ONS DATE	PRECAS	T TYPE "A" H	ANDHOLE	R.I. STANDARD
			CHIPY ENGINEER THANSPORTATION	Elmus Rober fr. CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	18.2.0



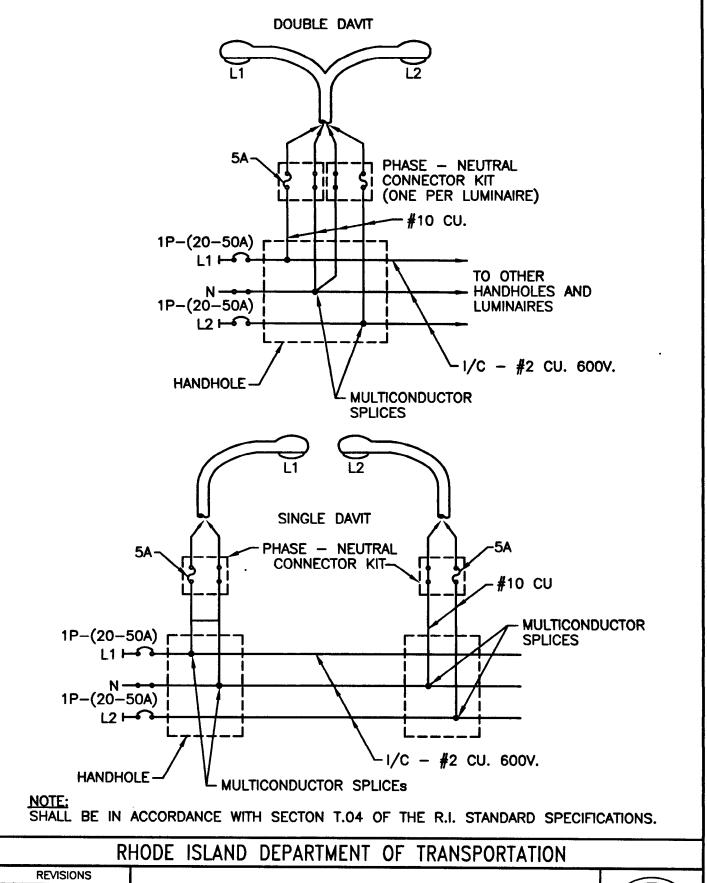




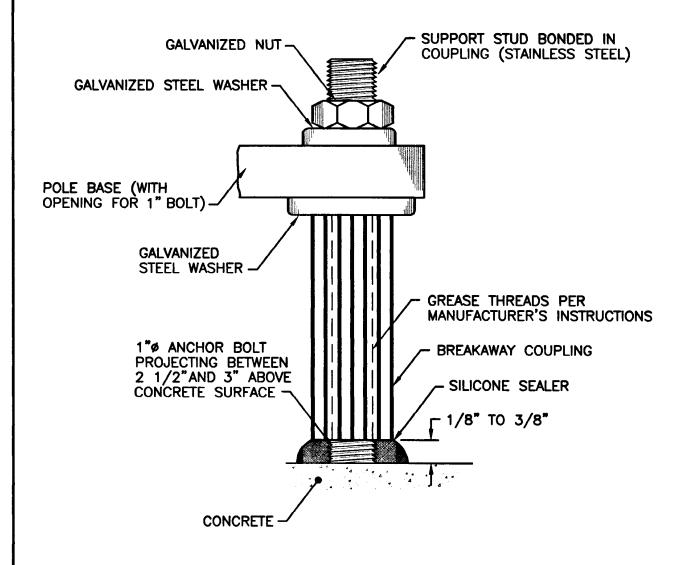


NOTE: SHALL BE IN ACCORDANCE WITH SECTON T.04 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND D	EPARTMENT OF TRA	ANSPORTATION	
	REVIS	IONS				
NO.	BY	DATE	ALUMINUM	POLE - GROUN	IDING DETAIL	// R.I.
					• • • • • • • • • • • • • • • • • • • •	//STANDARD\\
			Cham K. Carolli	CHIEF DESIGN ENGINEER	JUNE 15, 1998	∖∖18.3.1 <i>] </i>
			CHIEF ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	
			<i>V</i>			

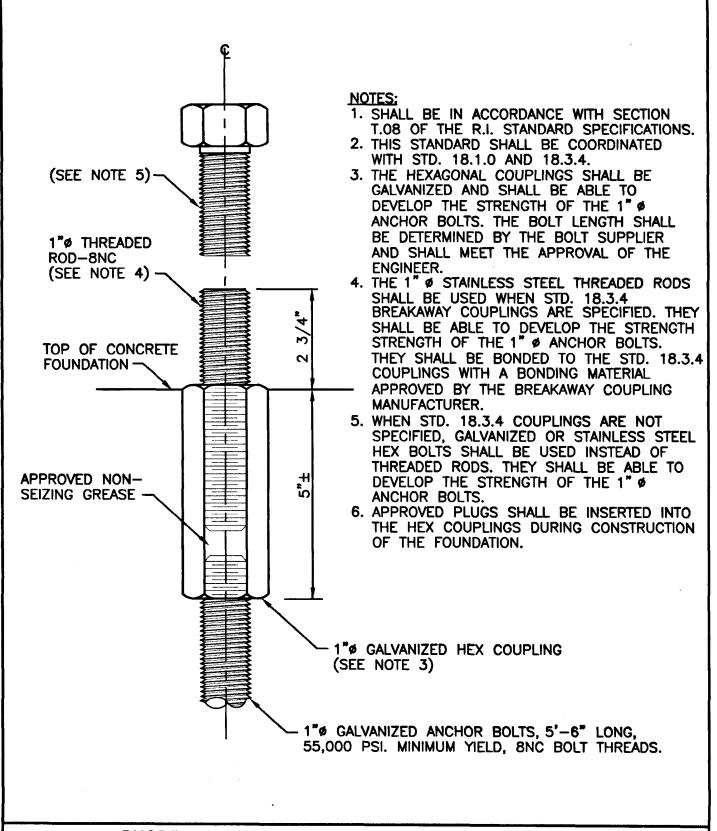


	REVIS	IONS				
NO.	BY	DATE	TYPICAL LUI	MINAIRE – WIR	ING DIAGRAM	R.I. STANDARD
			CHIEF/ENGINEER TRANSPORTATION	Elment Parker fr CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	18.3.2

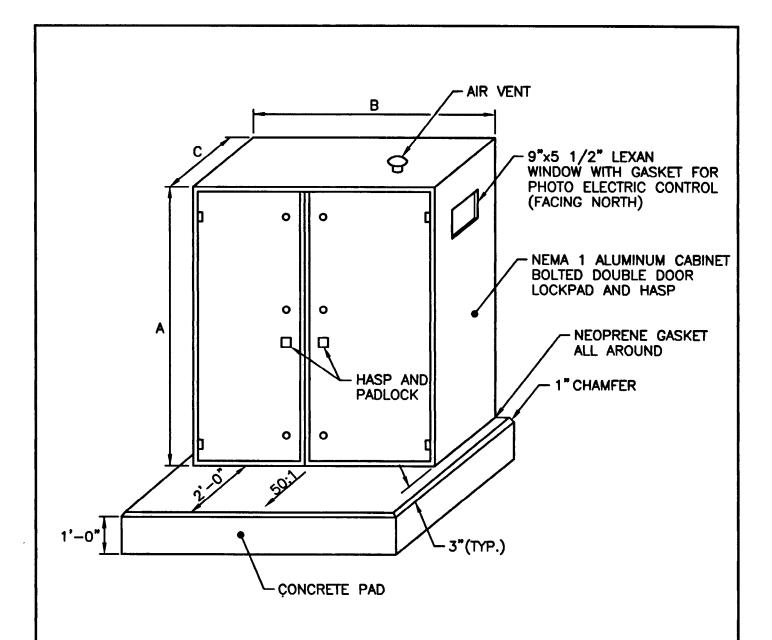


1. SHALL BE IN ACCORDANCE WITH SECTION T.08 OF THE R.I. STANDARD SPECIFICATIONS. 2. STD. 18.3.5 TO BE USED WITH THIS STANDARD.

<u></u>		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
L	REVISI	ONS	BREAKAWAY SUPPORT COUPLINGS	
NO.	BY	DATE	FOR LIGHT STANDARDS	R.I.
			FOR LIGHT STANDARDS	//STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	\\18.3.4 //
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



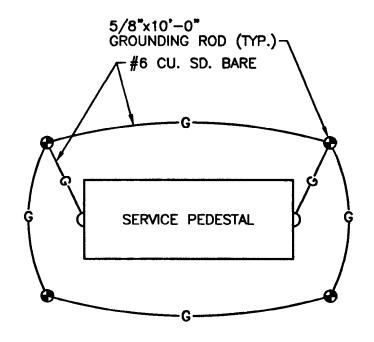
RECESSED BOLT COUPLINGS FOR LIGHT STANDARDS R.I. STANDARD 18.3.5			R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
FOR LIGHT STANDARDS R.I. STANDARD 18.3.5	<u> </u>	REVIS	IONS	RECESSED BOLT COLIDILINGS	
CHIEF ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998 (STANDARD) CHIEF DESIGN ENGINEER ISSUE DATE SSUE DATE	NO.	BY	DATE	FOR LICHT STANDARDS	1
CHIEF ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998 (18.3.5)				FOR LIGHT STANDARDS	
				CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE	18.3.5



CABINET DIMENSIONS	A	В	С
120/240 OR 120/208 VOLT	4'-0" TO 4'-4"	3'-6" TO 4'-2"	1'-2" TO 2'-0"
240/480 VOLT	4'-0" TO 6'-0"	3'-6" TO 5'-0"	2'-0"

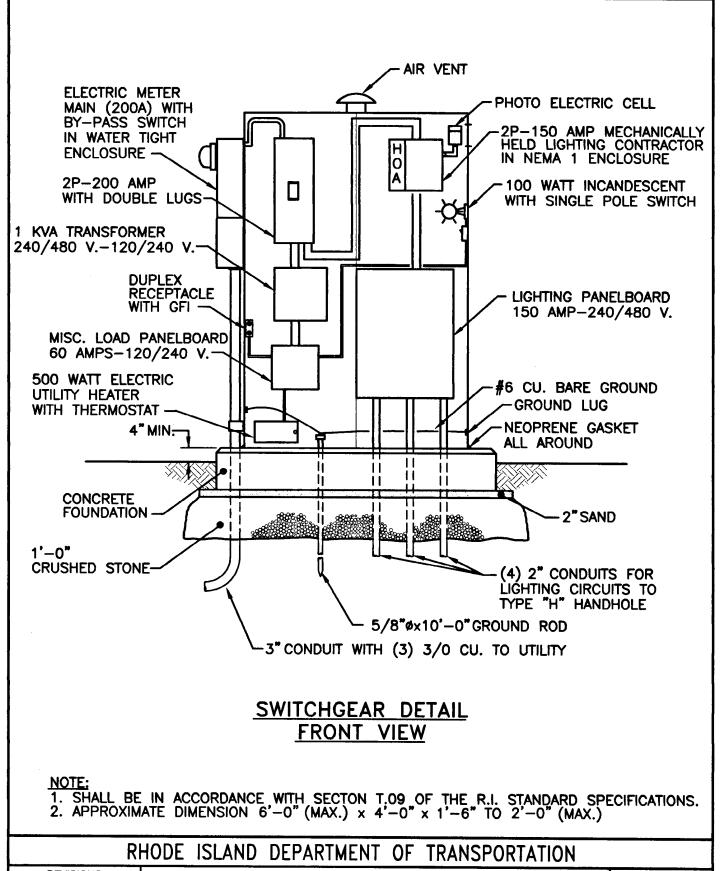
- SHALL BE IN ACCORDANCE WITH SECTON T.09 OF THE R.I. STANDARD SPECIFICATIONS.
 PEDESTAL SHOULD BE LOCATED A MINIMUM OF 30'-0" FROM EDGE OF TRAVEL LANE OR BEHIND A BARRIER OR GUARDRAIL IF LESS THAN 30'-0".

		R	HODE ISLAND DEP	PARTMENT OF TR	ANSPORTATION	
	REVIS	IONS				
NO.	BY	DATE	SE	RVICE PEDEST	AL	R.I.
			0 10	00 0 1		STANDARD
			CHIEF ENGINEER	CHIEF DESIGN ENGINEER	JUNE 15, 1998	10.4.0
			TRAISPORTATION	TRANSPORTATION	ISSUE DATE	

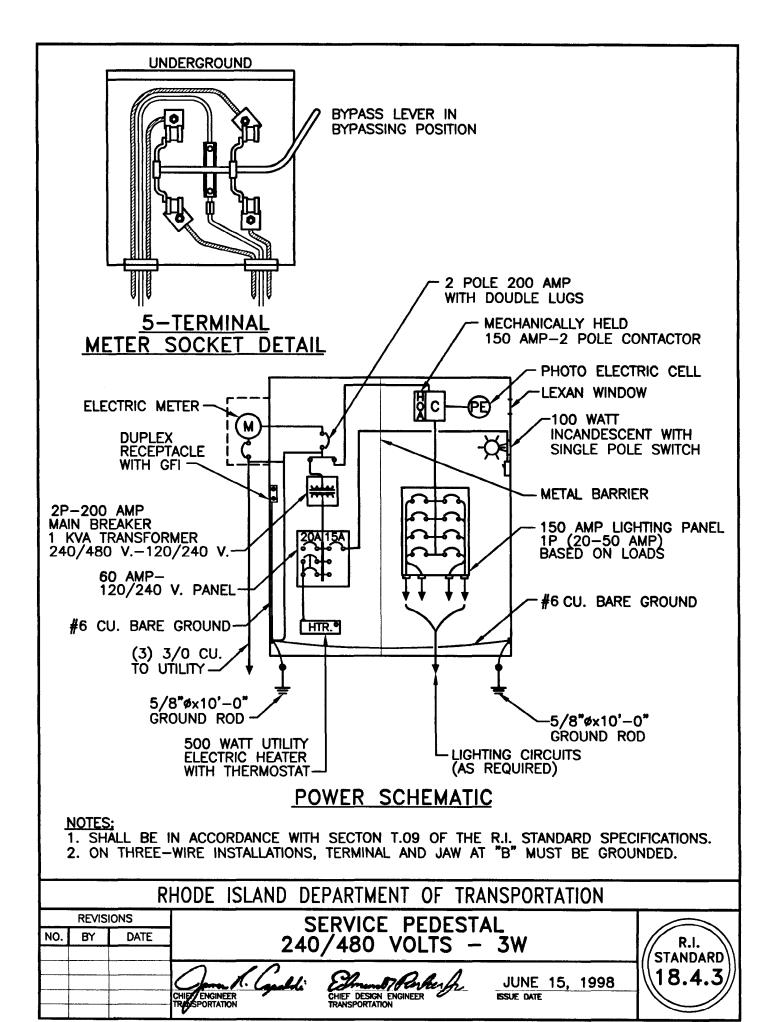


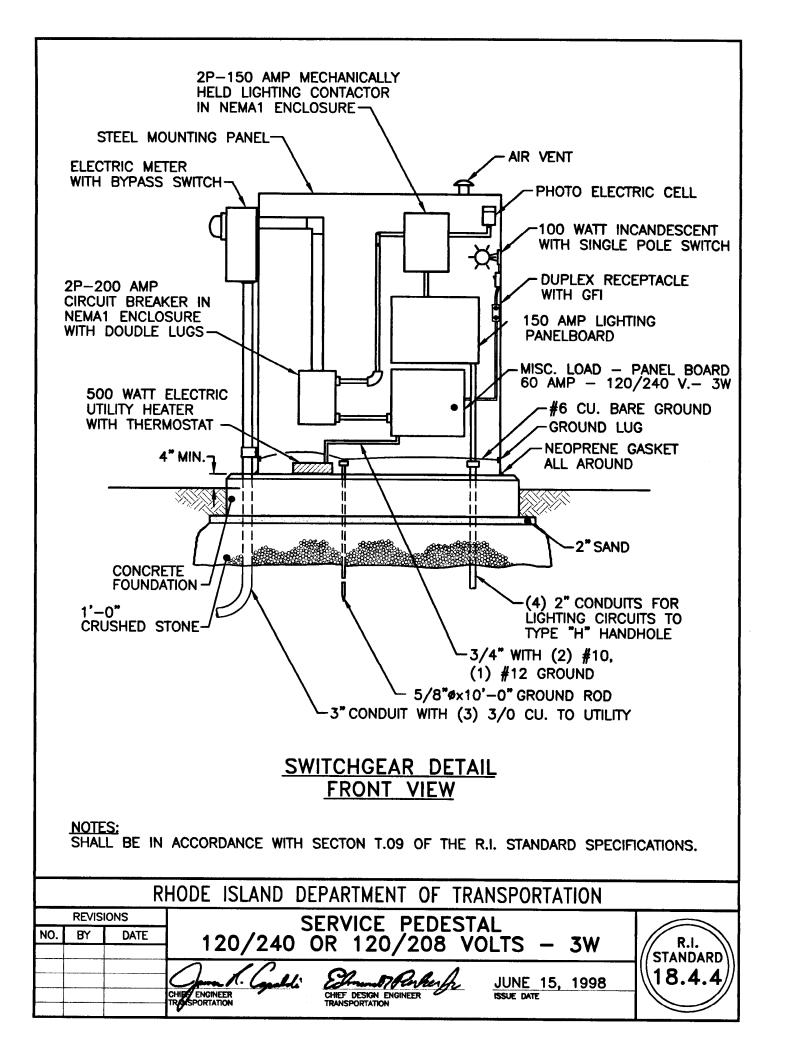
1. SHALL BE IN ACCORDANCE WITH SECTION T.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. #6 CU. BARE GROUND WIRE 1'-0" BELOW GRADE. ALLOW 3'-0" SLACK LEADS TO BOND AT GROUNDING LUGS IN CABINET.

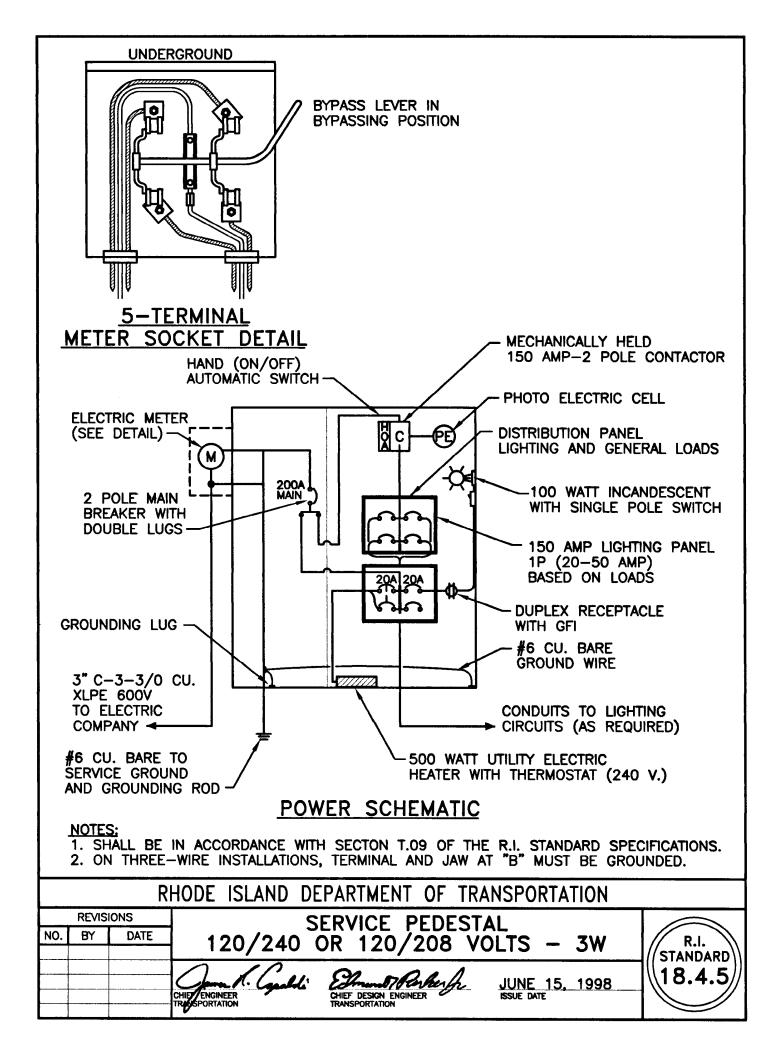
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	DATE	SERVICE PEDESTAL - GROUNDING DETAIL	R.I. STANDARD
			CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION UNE 15, 1998 ISSUE DATE	18.4.1

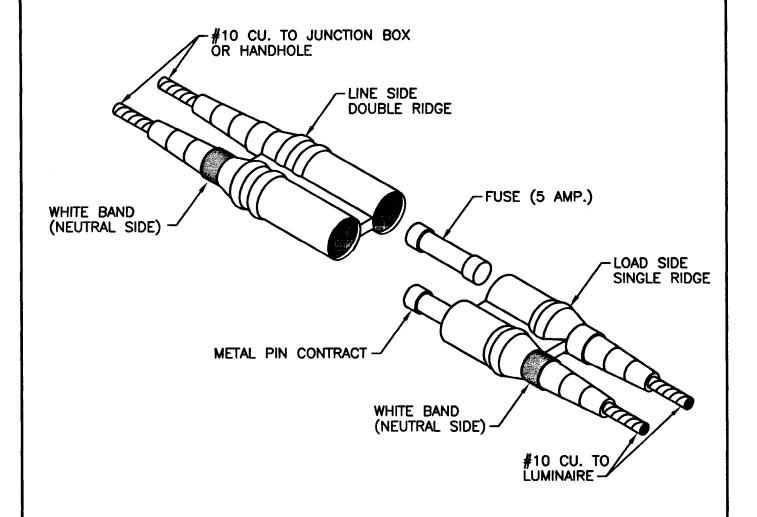


RHODE ISLAND DEPARTMENT OF TRANSPORTATION SERVICE PEDESTAL 240/480 VOLTS — 3W CHIEF ENGINEER TRANSPORTATION REVISIONS SERVICE PEDESTAL 240/480 VOLTS — 3W CHIEF DESIGN ENGINEER SSUE DATE SSUE DATE R.I. STANDARD 18.4.2



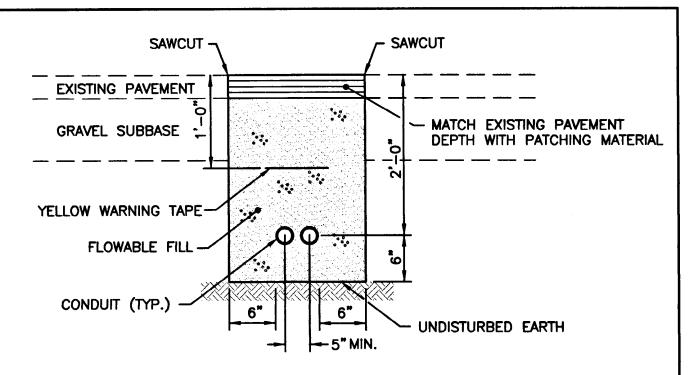




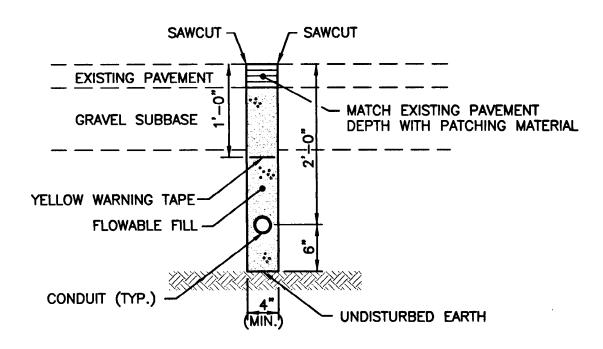


1. SHALL BE IN ACCORDANCE WITH SECTON T.04 OF THE R.I. STANDARD SPECIFICATIONS.
2. LOCATED IN HANDHOLE AT BASE OF ALUMINUM POLE.

	RI	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY	DATE	PHASE-NEUTRAL CONNECTOR KIT	R.I. STANDARD
		CHIP ENGINEER CHIEF DESIGN ENGINEER SULP DATE CHIEF DESIGN ENGINEER SULP DATE CHIEF DESIGN ENGINEER SULP DATE	18.5.0



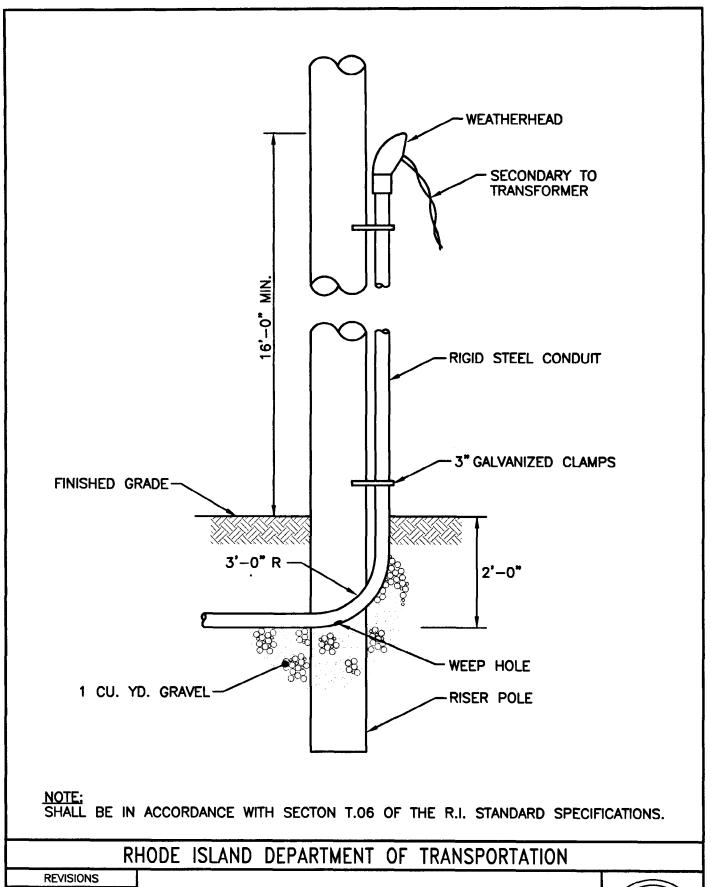
STANDARD TRENCH DETAIL



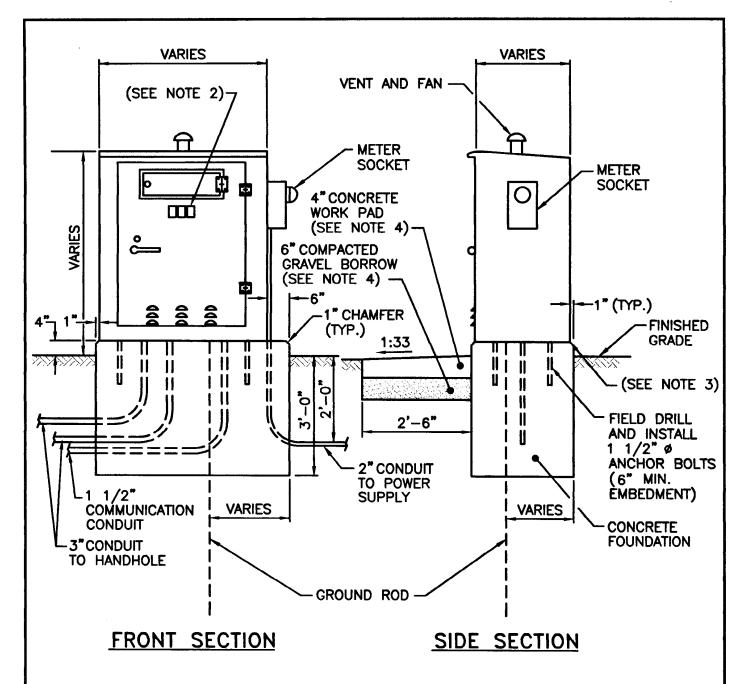
AUTOMATIC TRENCHING MACHINE DETAIL

NOTE: SHALL BE IN ACCORDANCE WITH SECTION T.06 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DE	PARTMENT OF TR	ANSPORTATION	
	REVIS	ONS	TRI	ENCH DETAIL	FOR	
NO.	BY	DATE		IN EXISTING		R.I.
			0 10			(STANDARD)
			CHIE ENGINEER	CHIEF DESIGN ENGINEER	JUNE 15, 1998	(18.6.0)
-			TRANSPORTATION	TRANSPORTATION		

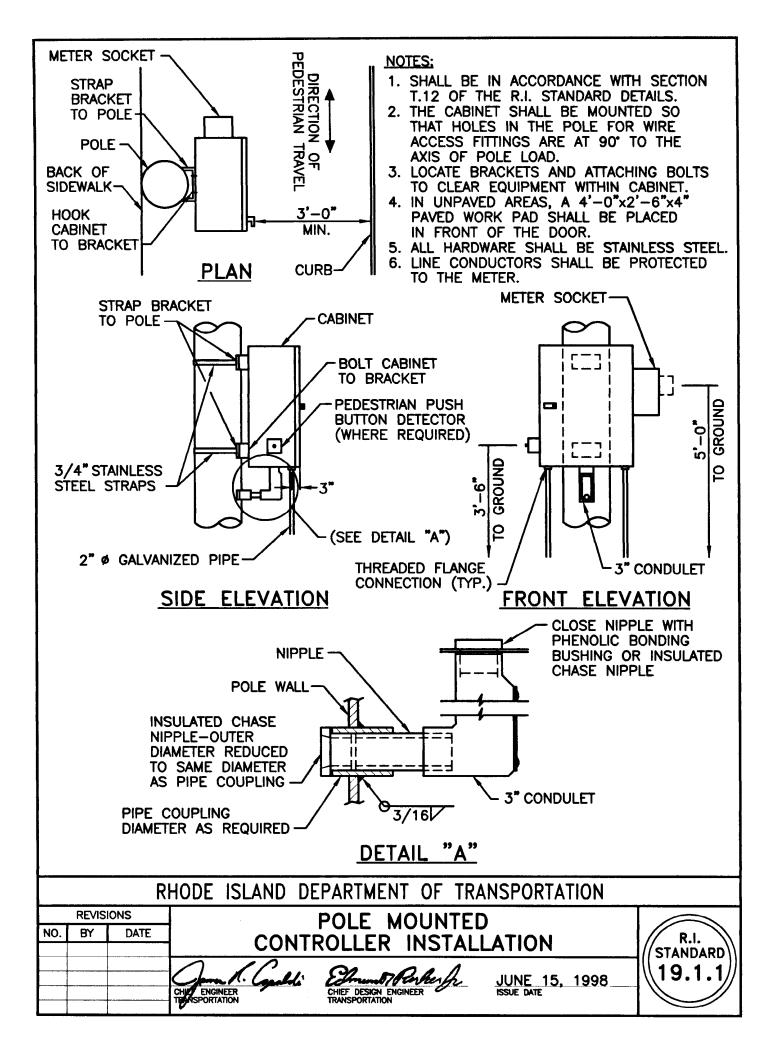


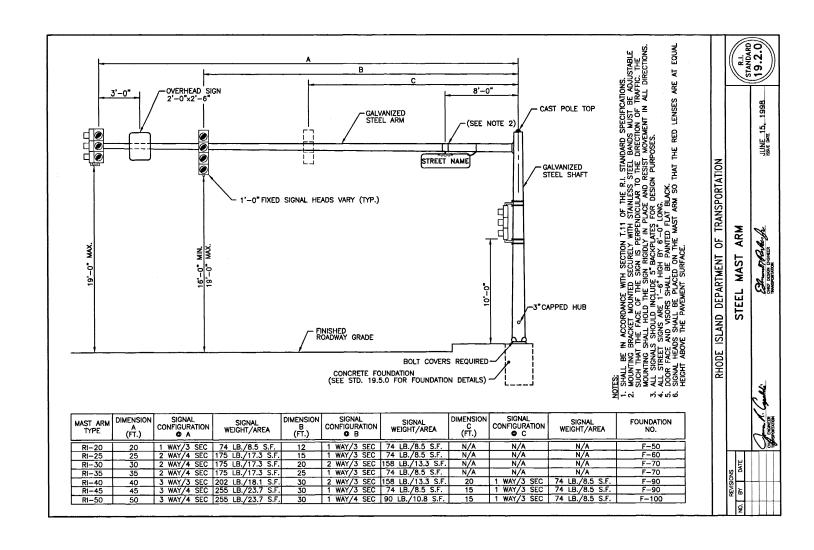
		R	HODE ISLAND DEPAR	MENT OF TRA	ANSPORTATION	
	REVISI	ONS				
NO.	BY	DATE	RISER	POLE DETA	AIL	R.I.
						//STANDARD
			Com K. Carlli Et	DO.C.A	UNE 15 1000	\\18.7.0 //
	-		CHIEF ENGINEER CHIEF I	Pends Rober fr. DESIGN ENGINEER	JUNE 15, 1998 ISSUE DATE	
			TRANSP	ORTATION		

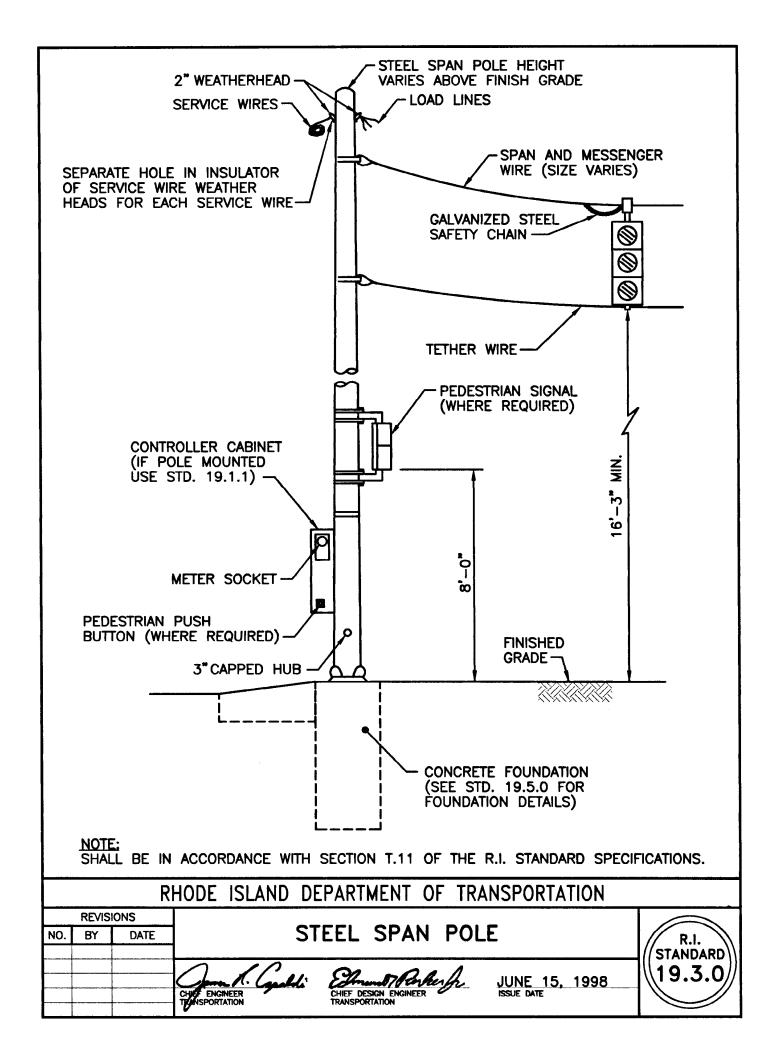


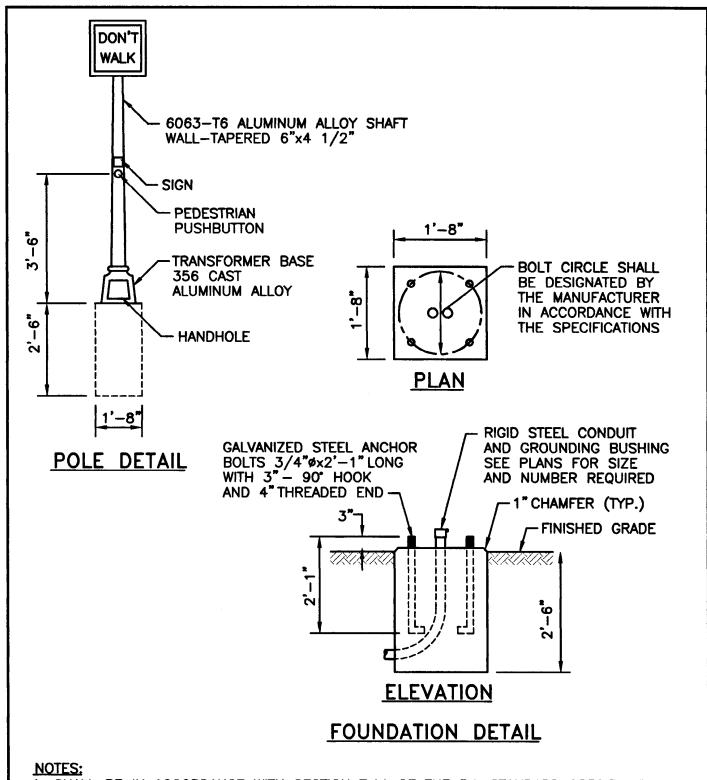
- 1. SHALL BE IN ACCORDANCE WITH SECTION T.12 OF THE R.I. STANDARD SPECIFICATION.
- 2. TRAFFIC SIGNAL NUMBER TO BE STENCILED ON EXTERIOR AND INTERIOR OF ALL CABINET DOORS (GROUND AND POLE MOUNTED). STENCIL SHALL BE 3" HIGH BLOCK LETTERS APPLIED WITH BLACK PAINT.
- 3. SILICONE CAULKING TO BE APPLIED BETWEEN CABINET AND FOUNDATION TO PROVIDE A PERMANENT WEATHER TIGHT SEAL.
- 4. IN UNPAVED AREAS A 4'-0"x2'-6" PAVED WORK PAD SHALL BE PLACED IN FRONT OF THE CABINET DOOR. PAD AND FOUNDATION SHALL BE COMPLETED IN ONE POUR.

R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS NO. BY DATE	GROUND MOUNTED CONTROLLER INSTALLATION	R.I. STANDARD
	CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	19.1.0





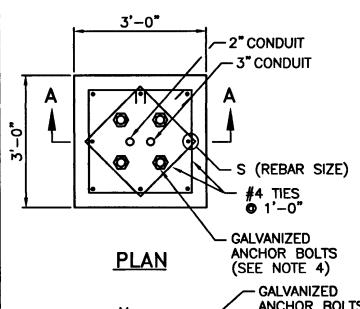




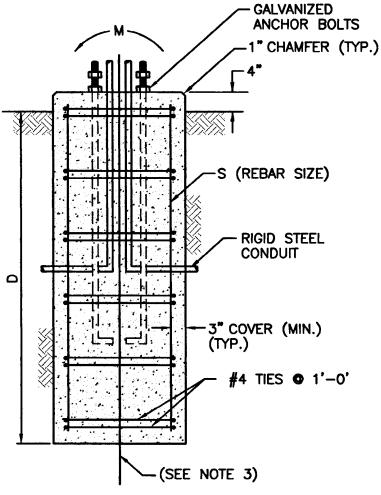
- 1. SHALL BE IN ACCORDANCE WITH SECTION T.11 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. PRECAST CONCRETE FOUNDATIONS MAY BE PROVIDED AS AN ALTERNATE TO CAST IN-PLACE FOUNDATIONS.

RHODF	ISI AND	DEPARTMENT	OF	TRANSPORTATION
			O.	

	REVISI	IONS		
NO.	BY	DATE	ALUMINUM PEDESTAL	R.I.
			CHIEF DESIGNEER TRANSPORTATION SUPER TRANSPORTATION TRANSPORTATION SUPER	19.4.0



FOUNDATION	FOUNDA	TION DIME	NSIONS
NO.	M (FT. K.)	D	S
F-40	0 TO 40	6'-6"	8-#5
F-50	50	7'-0"	8-#6
F-60	60	7'-6"	8-#7
F-70	70	8'-0"	8-#7
F-80	80	9'-0"	8-#7
F-90	90	9'-6"	8-#8
F-100	100	10'-0"	8-#8
F-110	110	10'-6"	12-#8
F-120	120	11'-0"	12-#8



SECTION A-A

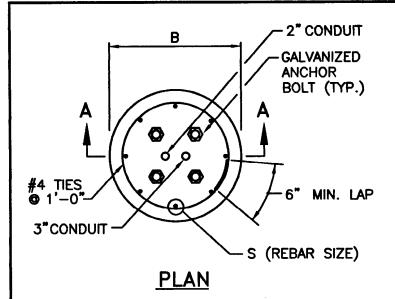
NOTES:

- 1. SHALL BE IN ACCORDANCE WITH SECTION T.11 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. M (MOMENT AT BASE) TO BE FURNISHED BY MAST ARM FABRICATOR.
 3. GROUND ROD 5/8" Ø x 10'-0" LONG,
- IF CONTROLLER IS POLE MOUNTED.
- 4. ANCHOR BOLT LENGTH AS REQUIRED TO DEVELOP THE CALCULATED BOLT TENSION.
- 5. CAST FOUNDATIONS AGAINST UNDISTURBED SOIL.
- 6. DESIGN SOIL PRESSURE = 1250 PSF.
- 7. REFERENCE STD. 19.2.0 AND 19.3.0.
- 8. BOLT TEMPLATE AND WOOD FORMS SHALL BE REMOVED PRIOR TO BACKFILLING.
- 9. M (MOMENT AT BASE) MAY BE REDUCED (DIVIDED BY 1.4) FOR LOADING COMBINATIONS CONTAINING WIND.
- 10. NO FOUNDATIONS TO BE PLACED IN
- CLAY, SILT OR MUCK.

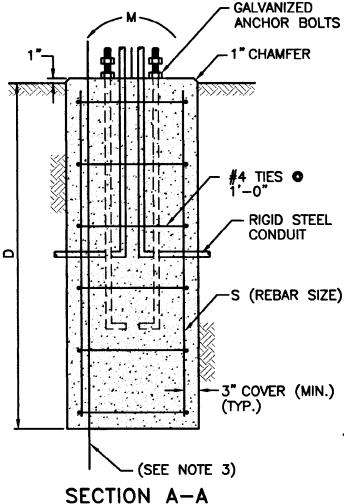
 11. PRIOR TO THE INSTALLATION OF POLE THE FOUNDATION SHALL BE MARKED BY A TRAFFIC CONE, DOUBLE NUTTED TO THE ANCHOR BOLTS.
- 12. FOUNDATION DESIGN IS BASED ON WELL GRADED GRANULAR SOIL CONDITIONS. A SPECIAL DESIGN IS REQUIRED IF FIELD CONDITIONS VARY FROM THIS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS MAST ARM AND NO. BY DATE SPAN POLE FOUNDATION R.I. STANDARD' 19.5.0 mot Parker fr JUNE 15, 1998 CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION



FOUNDATION DIMENSIONS							
M(FT. K.)	В	D	S				
0 TO 30	2'-6"	6'-0"	8-#5				
40	3'-0"	6'-6"	8-#5				
50	3'-0"	7'-0"	8-#6				
60	3'-0"	7'-6*	8-#7				
70	3'-0"	8'-0"	8-#7				
80	3'-0"	9'-0"	8-#7				
90	3'-0"	9'-6"	8-#8				
100	3'-0"	10'-0"	8-#8				
110	3'-0"	10'-6"	12-#8				
120	3'-0"	11'-0"	12-#8				



- 1. SHALL BE IN ACCORDANCE WITH SECTION T.11 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. M (MOMENT AT BASE) TO BE FURNISHED BY SPAN POLE FABRICATOR.
- 3. GROUND ROD 5/8" Ø x 10'-0"LONG, IF CONTROLLER IS POLE MOUNTED.
- 4. CAST FOUNDATIONS AGAINST UNDISTURBED EARTH.
- 5. REFERENCE STD. 19.2.0.
- 6. NO FOUNDATIONS TO BE PLACED IN CLAY, SILT OR MUCK.
- 7. M (MOMENT AT BASE) MAY BE REDUCED (DIVIDED BY 1.4) FOR LOADING COMBINATIONS CONTAINING WIND.
- 8. DESIGN SOIL PRESSURE 1250 PSF.
- 9. PRIOR TO INSTALLATION OF THE POLES, THE FOUNDATION BOLTS SHALL BE MARKED BY A TRAFFIC CONE AND DOUBLE—NUTTED TO THE ANCHOR BOLT.
- 10. FOUNDATION DESIGN IS BASED ON WELL GRADED GRANULAR SOIL CONDITIONS. A SPECIAL DESIGN IS REQUIRED IF FIELD CONDITIONS VARY FROM THIS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

NO. BY DATE

ORNAMENTAL MAST ARM FOUNDATION

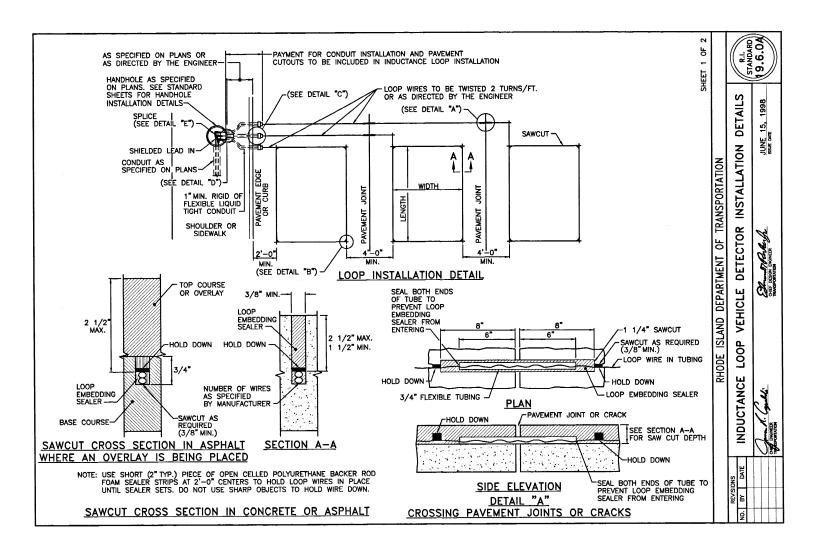
R.I.
STANDARD

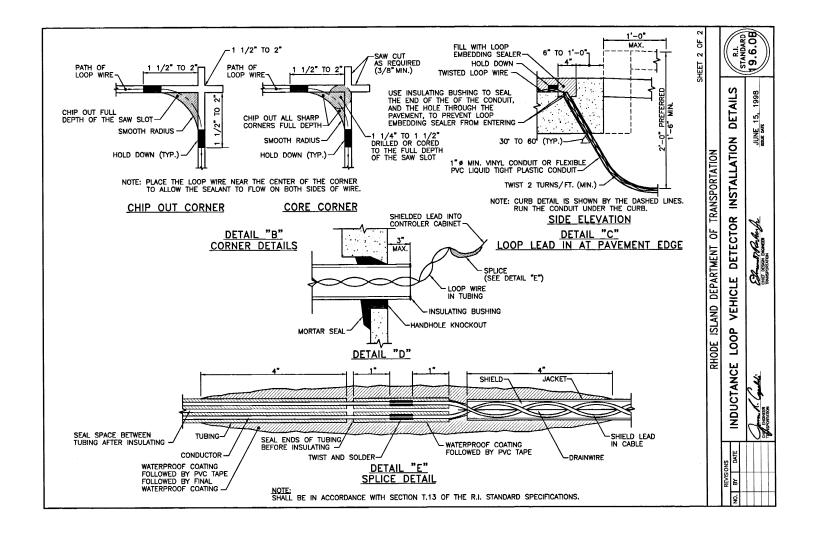
19.5.1

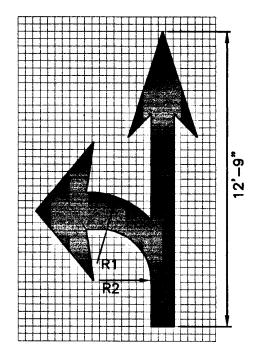
CHIEF DESIGN ENGINEER
TRANSPORTATION

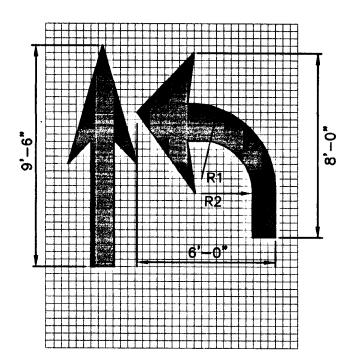
R.I.
STANDARD

19.5.1

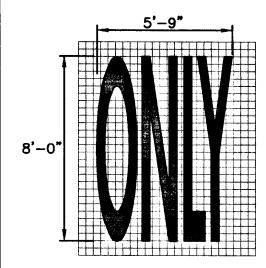






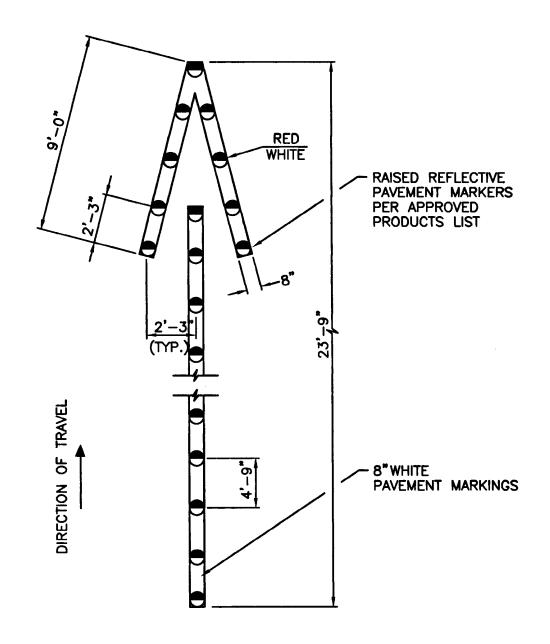


R1 = 3'-2" R2 = 2'-2"



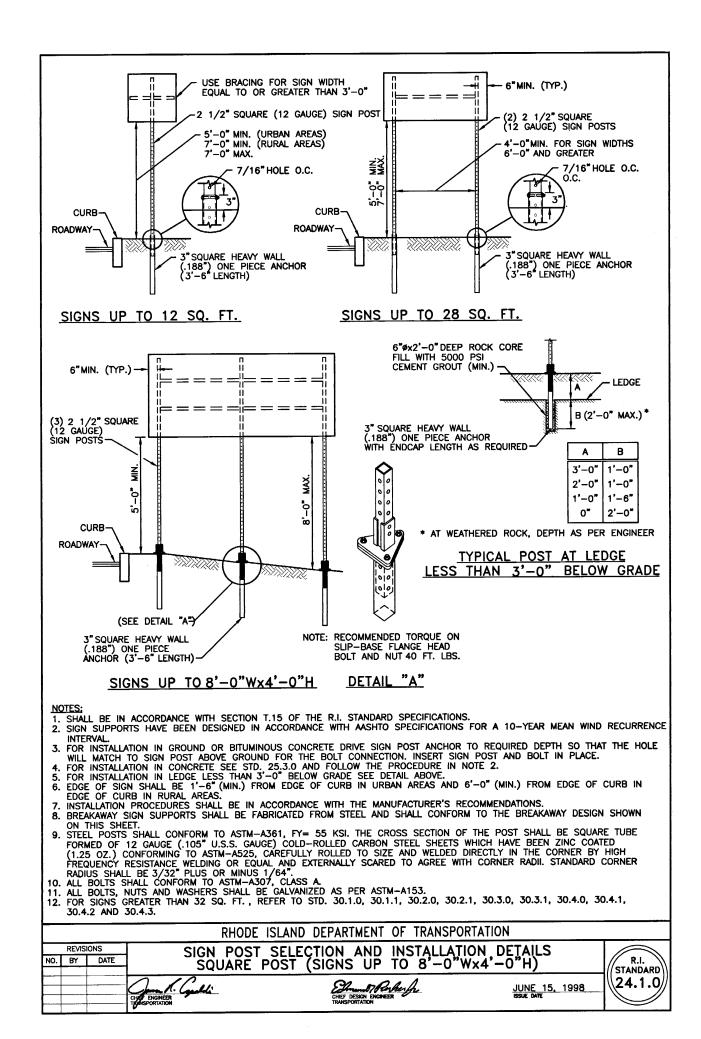
- 1. SHALL BE IN ACCORDANCE WITH SECTION T.20
- OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE LONGITUDINAL SPACE BETWEEN WORD OR SYMBOL MESSAGES, INCLUDING ARROWS, SHOULD BE AT LEAST FOUR TIMES THE HEIGHT OF THE CHARACTER FOR LOW SPEED ROADS BUT NOT MORE THAN TEN TIMES THE HEIGHT OF THE CHARACTER UNDER ANY CONDITIONS.
- 3. THE SPACING OF THE PAVEMENT MARKINGS WILL BE AS SHOWN ON THE PLAN AND AS PER THE MUTCD.
- 4. SYMBOLS AND WORDS SHALL MEET THE REQUIREMENTS OF THE FHWA "STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKINGS.

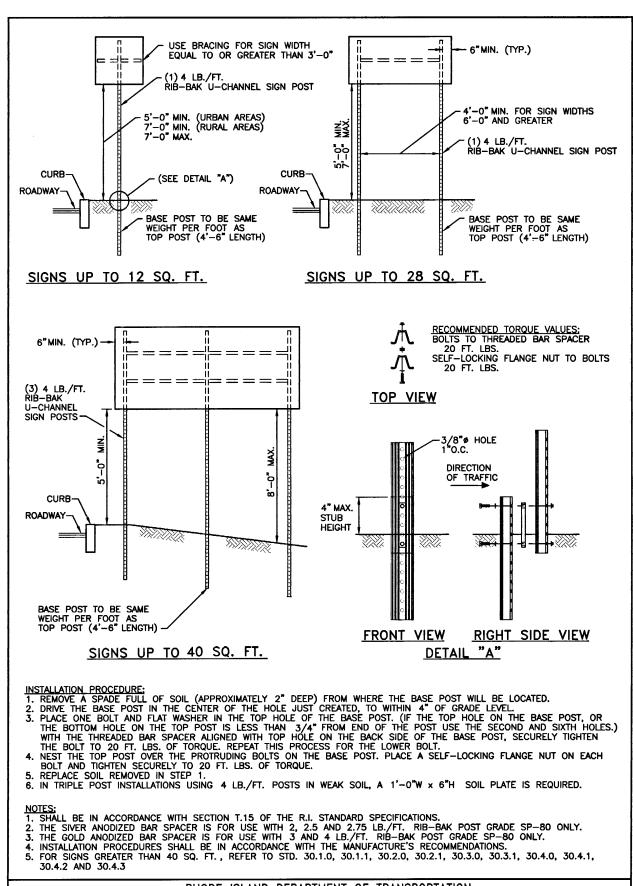
	REVISI	ONS	RHODE ISLAND DEPARTMENT OF TRANSPORTATION PAVEMENT MARKINGS	
NO.	NO. BY DATE		ARROWS AND ONLY	R.I. STANDARD
			CHIEF ENGINEER THATSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	20.1.0



- 1. SHALL BE IN ACCORDANCE WITH SECTION T.20 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THE RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED AFTER THE 8" ARROW HAS BEEN PLACED.

	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO. BY DATE	BI-DIRECTIONAL CONTROL DEVICE	R.I. STANDARD
	CHIEF ENGINEER THAT SPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	20.2.0



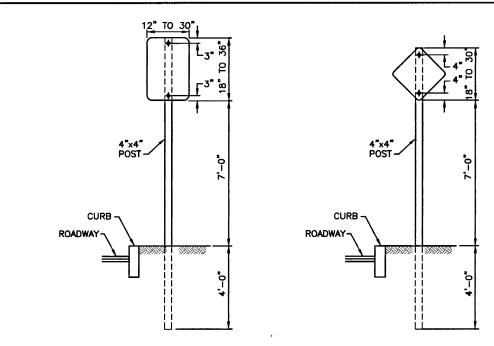


RHODE ISLAND DEPARTMENT OF TRANSPORTATION

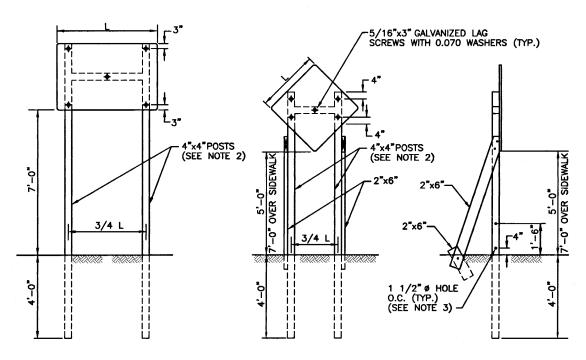
SIGN POST SELECTION AND INSTALLATION DETAILS
U-CHANNEL POST (SIGNS UP TO 8'-0"Wx4'-0"H)

CHE DISINIER
THE DESIGN ENGINEER
THE POST (SIGNS UP TO 8'-0"Wx4'-0"H)

CHE DISINIER
THE DESIGN ENGINEER
THE DESIGN EN



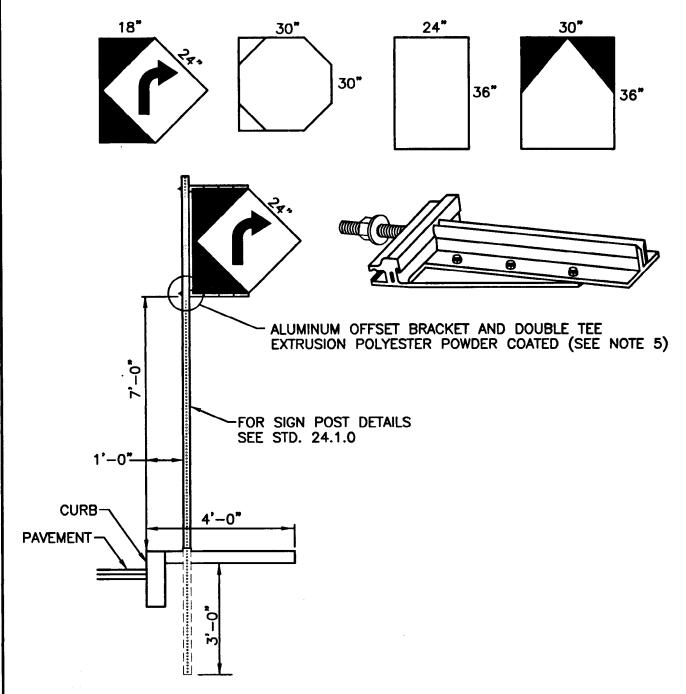
SIGNS UP TO 10 SQ. FT.



SIGNS UP TO 60 SQ. FT.

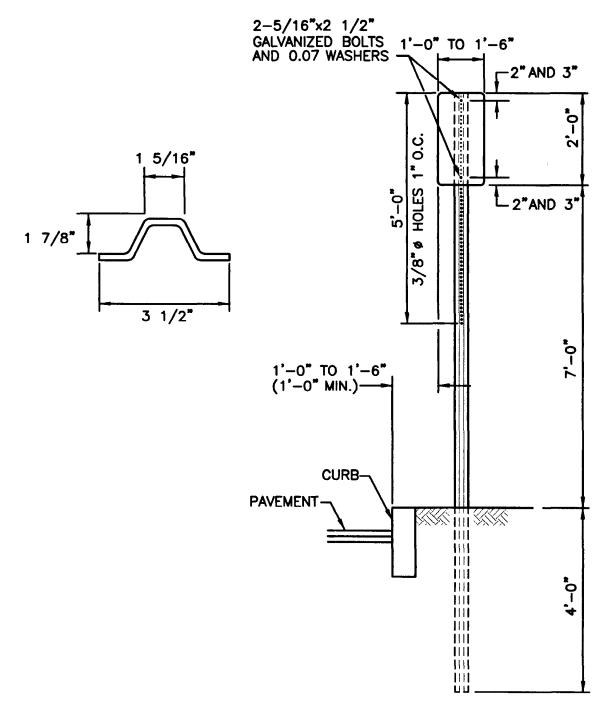
- NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
 2. USE (2) 4"x6" POSTS FOR SIGN AREAS GREATER THAN 20 SQ. FT.
 3. DRILL 1 1/2"Ø HOLES FOR 4"x6" POSTS ONLY.
 4. FOR SIGNS 5'-0"x5'-0" AND LARGER USE DIAGONAL BRACING ON EACH VERTICAL POST AND 4 LAG SCREWS
 5. CONSTRUCTION AND TEMPORARY SIGN PANELS SHALL BE 3/4" THICK EXTERIOR GRADE PLYWOOD OR ALUMINUM.
 6. ALL SIGN SUPPORTS (INCLUDING TEMPORARY) MUST BE SUCCESSFULLY CRASH TESTED.
 7. FOR SIGNS GREATER THAN 60 SQ. FT., REFER TO STD. 30.1.0, 30.1.1, 30.2.0, 30.2.1, 30.3.0, 30.3.1, 30.4.0, 30.4.1, 30.4.2 AND 30.4.3.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION CONSTRUCTION AND TEMPORARY SIGN MOUNTINGS (SIGNS UP TO 60 SQ. REVISIONS BY DATE R.I. STANDARD 24.3.0 JUNE 15, 1998



- 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THIS SIGN MOUNTING SHALL NOT REPLACE STD. 24.6.0 PARKING SIGN MOUNTING.
- 3. INSTALLATION SOIL, GRAVEL, OR ASPHALT CAP AND SLEDGE HAMMER. CONCRETE USE PNEUMATIC HAMMER OR CONCRETE DRILL.
- 4. MAXIMUM SIGN AREA 7.5 SQ. FT.
- 5. DOUBLE TEE EXTRUSION MAY BE ORDERED OR CUT TO EQUAL HORIZONTAL EDGE OF SIGN.

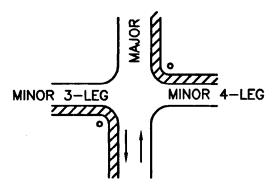
			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	IONS DATE	CANTILEVER BREAKAWAY SIGN SUPPORT FOR 4'-0" TO 5'-0" SIDEWALKS	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	24.4.0



- 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE STANDARD SPECIFICATIONS.

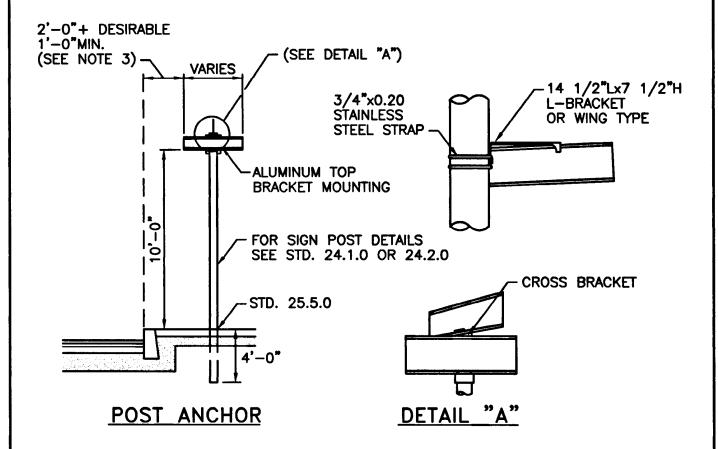
 2. PARKING SIGNS SHALL BE SET AT AN ANGLE OF NOT LESS THAN 30° NOR MORE THAN 45° WITH A LINE PARALLEL TO FLOW OF TRAFFIC, 1'-6" (1'-0" MIN.) FROM EDGE OF CURB FACE.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS		
NO.	BY	DATE	PARKING SIGN MOUNTING DETAIL	R.I.
				(/STANDARD\
			CHIP ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998 CHIP ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	\\\24.6.0 <i>\\</i>
			CHIEF ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION TRANSPORTATION TRANSPORTATION TRANSPORTATION	



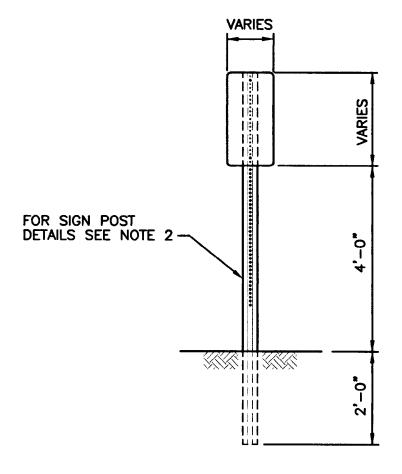
TYPICAL SIGN LOCATION

IF SIGNS ARE ON THEIR OWN SUPPORT POST, THE POST SHALL BE LOCATED NEARER TO THE MAJOR STREET AND WITHIN 5'-0" OF THE P.T. OF THE CURVE.



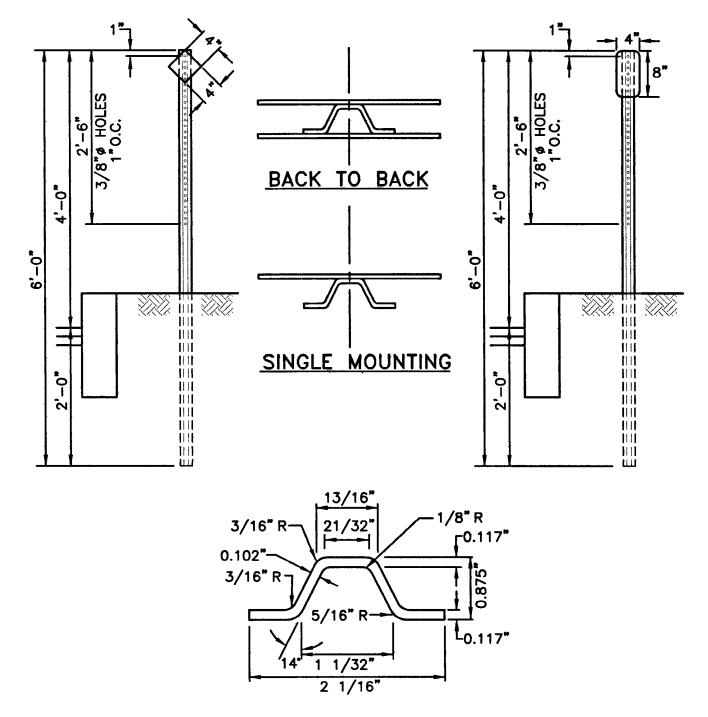
- 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. EACH SIGN SHALL HAVE LEGEND ON BOTH SIDES.
 3. POSTS SHALL BE INSTALLED AS CLOSE AS POSSIBLE TO THE BACK OF SIDEWALK, UNLESS SPACE DOES NOT PERMIT.

	REVISI		HODE ISLAND DEPARTMENT OF TRANSPORTATION	Т
NO.	BY	DATE	STREET SIGN MOUNTING DETAIL	R.I. STANDARD
			CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	24.6.1



- SHALL BE IN ACCORDANCE WITH SECTION T.19 OR THE R.I. STANDARD SPECIFICATIONS.
 POSTS FOR MARKERS SHALL CONFORM TO STD. 24.6.0
 POST LENGTH FOR MILE MARKER SHALL BE 8'-0" WITH 3/8" Ø HOLES 1"O.C. FOR A LENGTH OF 2'-6" FROM TOP OF POST.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS BY	DATE	MILE MARKER MOUNTING DETAIL	R.I.
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	24.6.2



- 1. SHALL BE IN ACCORDANCE WITH SECTION T.18 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. INSTALLATION SHALL CONFORM TO THE LATEST EDITION OF THE MUTCD.
- 3. MOUNT WITH 3/16" ALUMINUM DRAW RIVETS AND WASHERS OR 1/4" ALUMINUM CARRIAGE BOLTS AND WAHERS.

PHONE ISLAND DEPARTMENT OF TRANSPORTATION

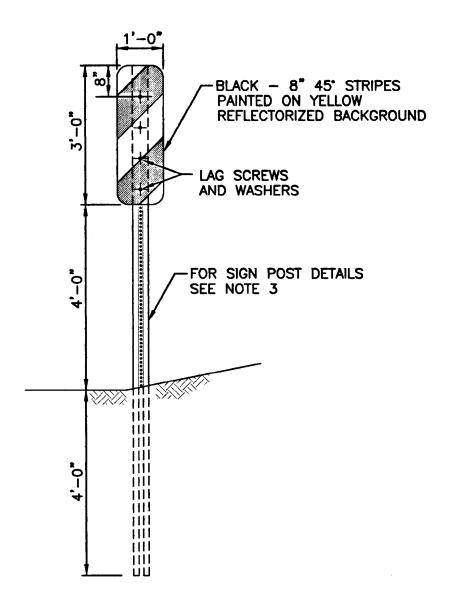
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NO.	BY	DATE	Ì	LIOITIW	MOUNTIN			ı,	//
					MUUNIII	של או	IAIL	_]/	$^{\prime\prime}$ ST
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CHIEF ENGINEER TRUSPORTATION

CHIEF DESIGN ENGINEER TRANSPORTATION

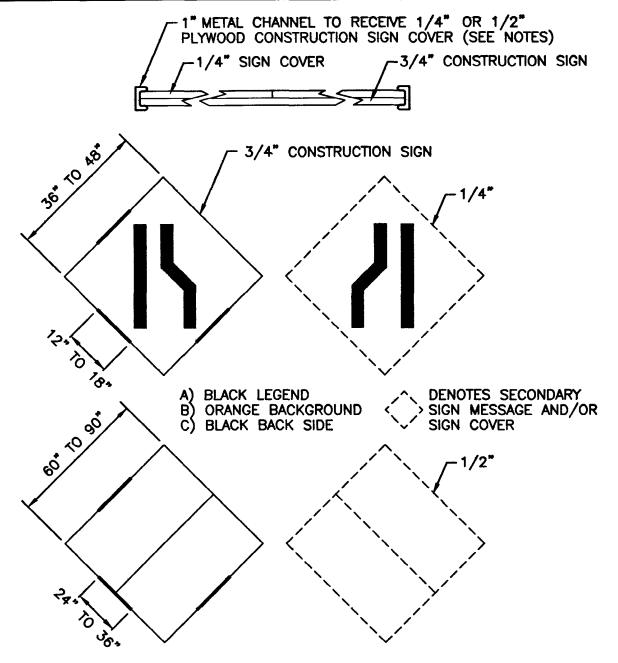
JUNE 15, 1998

R.I. STANDARD 24.6.3



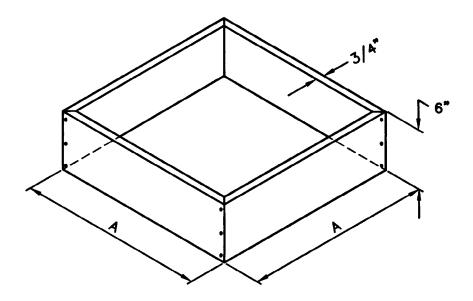
- 1. SHALL BE IN ACCORDANCE WITH SECTION T.18 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. SIGN SHOWN IS FOR RIGHT BRIDGE ABUTMENT. USE OPPOSITE SIGN FOR LEFT SIDE.
- 3. POSTS FOR MARKERS SHALL CONFORM TO STD. 24.6.0.

		R	HODE ISLAND DE	PARTMENT OF TR	ANSPORTATION	
	REVIS	IONS	DDIDG	E ABUTMENT M	ADKED	
NO.	BY	DATE		OUNTING DETA		R.I.
 			"	NOONTING DETA		//STANDARD\\
			Chank Carlli	Elment Parker fr. CHIEF DESIGN ENGINEER	JUNE 15, 1998	∖ ∖24.6.4 //
			CHIL ENGINEER THANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	



- SHALL BE IN ACCORDANCE WITH SECTION 922 OR THE R.I. STANDARD SPECIFICATIONS.
 HARD COVER FOR DAILY COVERING OF CONSTRUCTION SIGNS AS NEEDED OR
 TO CHANGE SIGN MESSAGE AS NEEDED.
 SOFT COVER AN ALTERNATIVE TO USING A PLYWOOD SIGN COVER WILL BE A TARP
 COVER (NON-TRANSPARENT) WITH GROMMETS FOR THE PURPOSE OF RECEIVING A CORD OR A ROPE TO SECURE TARP COVER TO EXISTING CONSTRUCTION SIGN FACE. TARP COVER DIMENSIONS SHALL BE AT LEAST EQUAL TO THE CONSTRUCTION SIGN DIMENSIONS. THIS SOFT COVER IS SOLELY FOR THE PURPOSE OF COVERING CONSTRUCTION SIGNS, AT NO TIME SHALL SIGN MESSAGES APPEAR ON THE FACE OF THE TARP COVERS, NOR SHALL TARP COVERS BE SECURED BY TAPING OR STAPLING TO FRONT OF SIGN.

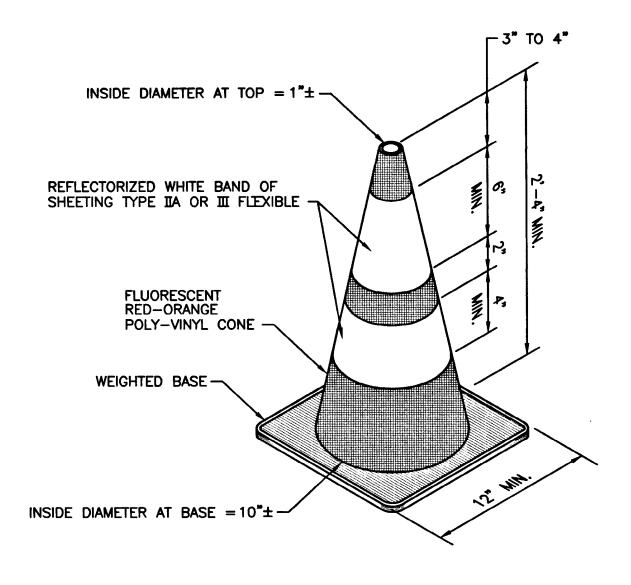
			RHODE ISLAND [DEPARTMENT OF TI	RANSPORTATION	
	REVIS	IONS	TEMPOR	ARY CONSTRUC	TION SIGN	
NO.	BY	DATE		COVER DETAIL		R.I.
				COVER DETAIL		//STANDAR
			Jam K. Carlli	CHIEF DESIGN ENGINEER	JUNE 15, 1998	\\25.1.
			CHILL ENGINEER THANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	



- 1. 3/4"x6" BOARDS TO BE USED FOR FORMS FOR SIGN POST MOUNTING IN CONCRETE AND ASPHALT SIDEWALK AREAS.
- 2. DIMENSION "A" SHALL BE 6" LARGER THAN THE GREATER DIMENSION OF THE REQUIRED POST, BUT 8" MINIMUM.
- 3. AFTER INSTALLATION OF THE POST AND PROPER COMPACTION, THE HOLE SHALL BE PAVED TO MATCH THE SURROUNDING SIDEWALK.

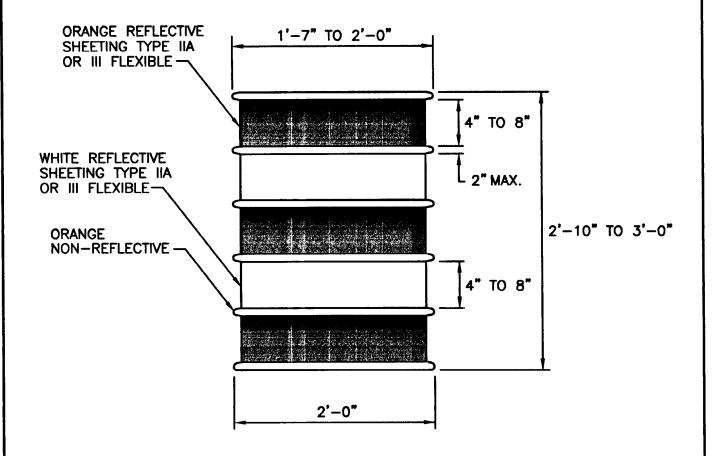
 4. THE BOX FORM SHALL BE REMOVED PRIOR TO PATCHING THE SIDEWALK AREA.
- 5. IN CONCRETE SIDEWALK AREAS EXPANSION JOINT MATERIAL SHALL BE PLACED BETWEEN THE NEW PATCH AND THE ADJACENT SIDEWALK AREA.

			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS		
NO.	BY	DATE	BOX FORM	R.I.
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	(STANDARD) 25.2.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



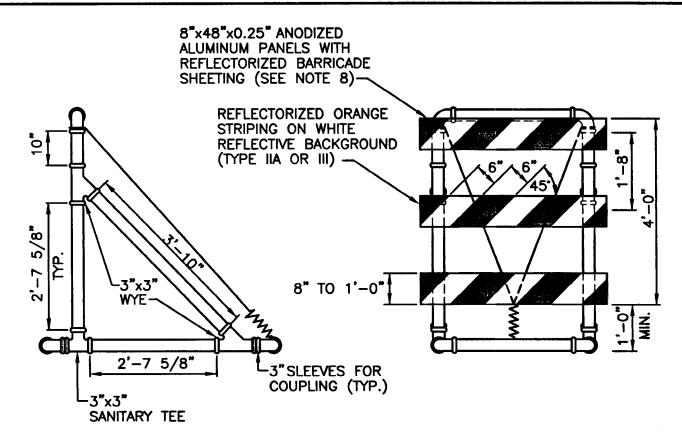
1. SHALL BE IN ACCORDANCE WITH SECTION 923 OF THE R.I. STANDARD SPECIFICATIONS.
2. DIMENSIONS MAY VARY WITH MANUFACTURER'S RECOMMENDATIONS.
3. IN AREAS WHERE POSTED SPEED IS 45 MPH AND OVER ADD A 7 LB. WEIGHTED RING TO EACH CONE.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS		
NO.	BY	DATE	FLUORESCENT TRAFFIC CONE	// R.I.
				(STANDARD)
			Jan A. Carlli Elment Parker for JUNE 15, 1998	\\26.1.0//
			CHIP ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



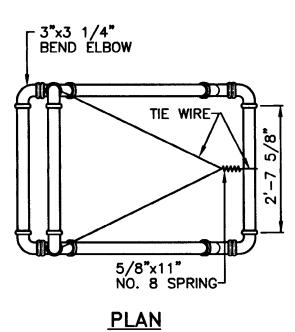
- 1. SHALL BE IN ACCORDANCE WITH SECTION 923 OF THE R.I. STANDARD SPECIFICATIONS.
- BASE TO BE ADAPTED FOR SANDBAG BALLAST.
 DRUM CAN BE CYLINDRICAL OR PARTLY CYLINDRICAL WITH A FLAT SIDE.
- 4. WALL THICKNESS TO BE 1/2" MINIMUM.

			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	ONS	DOLVETING ENE DEUM MITH MARKINGS	
NO.	BY	DATE	POLYETHYLENE DRUM WITH MARKINGS	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	26.2.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



SIDE ELEVATION

FRONT ELEVATION



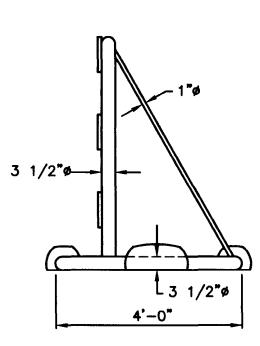
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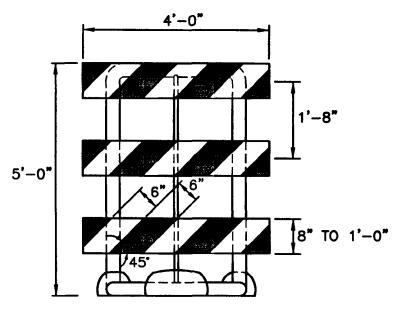
- 1. SHALL BE IN ACCORDANCE WITH SECTION 923 OF THE R.I. STANDARD SPECIFICATIONS.
- ALL PIPE SHALL BE POLYVINYL CHLORIDE (PVC) PRESSURE RATED CLASS SDR 21 OR SDR 26 CONFORMING TO ASTM D2241 OR ASTM D2729.
- 3. JOINT FILLINGS MAY BE PVC-ASTM D 2665 OR ACRYLONITILE BUTADIENE STYRENE (ABS) ASTM D 2661 (DRAINAGE WASTE AND VENT).
- 4. ALL PIPES SHALL BE WHITE. WHITE FITTING'S ARE PREFERRED, BLACK MAY BE USED.
- 5. ALL JOINTS SHALL BE FREE TO SEPARATE UPON VEHICLE IMPACT.
- 6. A FIXED FRANGIBLE PAVEMENT CONNECTION PREFERRED. SAND BAGS MAY BE SUBSTITUTED.
- 7. STRIPES SHALL BE SLOPED DOWNWARD IN DIRECTION OF TRAFFIC TO PASS.
- 8. PVC PIPE SHALL BE ULTRAVIOLET LIGHT STABILIZED.
- 9. ATTACH PANELS WITH 1" NO. 14 PAN HEAD METAL SCREWS.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

PVC PLASTIC PIPE TYPE III BARRICADE

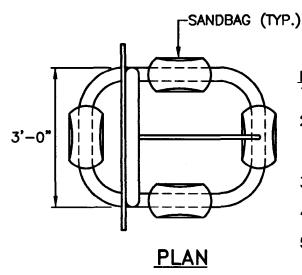
R.I.
STANDARD
26.3.0





SIDE ELEVATION

FRONT ELEVATION



NOTES:

- 1. SHALL BE IN ACCORDANCE WITH SECTION 923 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THE BASE AND UPRIGHT PIPE SHALL BE ROTATIONALLY MOLDED POLYETHYLENE PLASTIC CONFORMING TO ASTM D1248, CLASS A3-E4 OR CLASS II A4.
- 3. THE BRACE SHALL BE EXTRUDED POLYETHLENE PLASTIC CONFORMING TO ASTM D1248-IIIA4.
- 4. ALL PIPE SHALL BE WHITE AND SHALL BE ULTRAVIOLET LIGHT STABILIZED.
- 5. ALTERNATE ORANGE AND WHITE STRIPES SHALL BE REFLECTORIZED, 6" WIDE, SLOPED DOWNWARD IN THE DIRECTION OF TRAFFIC TO PASS.
- 6. THE BARRICADE RAILS SHALL BE 9"x48"x0.125" PLASTIC PANELS ATTACHED WITH 1" PLASTIC RIVETS, 4 PER RAIL.
 7. THIS IS AN APPROVED ALTERNATE TO STD. 26.3.0.
- 8. ALL SHEETING SHALL BE TYPE IIA OR III REFLECTIVE SHEETING.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

REVISIONS PLASTIC PIPE TYPE III BARRICADE NO. BY DATE **STANDARD** 26.3. CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE ENGINEER SPORTATION

									,		
SIGN	NUMBER	* R1−1	* R1-2	R2-	-1		R2-4a			R2-5c	
LEG	END	STOP	RED VIELD RED WHATE		SPEED LIMIT OO				SPEED ZONE AHEAD		
COLOR	BACKGROUND	RED	WHITE	WHI	TE		WHITE			WHITE	
COLOR	COPY	WHITE	RED	BLA			BLACK			BLACK	
SIGN	WIDTH	24" 30" 36" 48"	36" 48" 60"_	24° 30		24*	36"	48"	24"	36"	48"
DIMENSION	HEIGHT	24" 30" 36" 48"	36" 48" 60"	30" 48	3" 60"	48"	72"	96	30" 48" 60		60"
SIGN	NUMBER	R3-1	R3-2	R3-	-3		R3-4			R3-5	$\overline{}$
LEG	END	R	(3)	NO TURNS					ONLY		
	BACKGROUND	WHITE	WHITE	WHITE		WHITE			YELLOW		
COLOR	COPY	RED (BLACK ARROW)	RED (BLACK ARROW)	BLACK		RED (BLACK ARROW)		ROW)		BLACK	
SIGN	WIDTH	24"	24*	24		24"			30"		
DIMENSION	HEIGHT	24"	24"	24	•		24"			36"	
	•										
SICH	NUMBER	R3-6	R3-7 (R OR L)	R4-	_1	_	R4-2			R4-3	
3,011	TOMBER	R3=8	KS=7 (K OK L)		<u> </u>			<u> </u>	-		$\overline{}$
LEG	END	4	LEFT LANE MUST TURN LEFT	DO NOT PASS		PASS WITH CARE			SLOWER TRAFFIC KEEP RIGHT		
201.05	BACKGROUND	WHITE	WHITE	WHI	TE		WHITE			WHITE	
COLOR	COPY	BLACK	BLACK	BLA	CK		BLACK			BLACK	
SIGN	WIDTH	30*	30"	18"	24"	18"		24"	24"	36"	48"
DIMENSION	LICIOLIT	70"	707	24"	30"	24"		30"	30"	AR	80"

SIGN NUMBER		R4-5				R4-6		* R4-7		R4-7a			R4-7b			
LEGEND		TRUCKS USE RIGHT LANE			TRUCKS LANE 500 FEET			7	KEEP RIGHT			RIGHT				
COLOR BACKGROUND COPY		WHITE			WHITE			WHITE		WHITE			WHITE			
			BLACK			BLACK		BLACK		BL	ACK			BL	ACK	
SIGN WIDTH		24"	36"	48"	24"	36"	48"	24"	18"	24"	36"	48"	18"	24"	36"	48
DIMENSION	HEIGHT	30"	48"	60"	30"	48"	60"	30"	24"	30"	48"	60"	24"	30"	48"	60

18" 24"

30°

SIGN N	NUMBER	* R5-1			* R5-1a R5-6		R5-10b	R6-1 (R OR L)	
LEG	END	DO NOTY RED RED WHITE			WRONG WAY		PEDESTRIANS AND BICYCLES PROHIBITED	ONE WAY	
	BACKGROUND	RED			RED	WHITE	WHITE	BLACK-ARROW WHITE	
COLOR	COPY	WHITE			WHITE	RED (BLACK BICYCLE)	BLACK	BLACK	
SIGN WIDTH		30"	36"	48"	36"	24*	30"	36*	
DIMENSION	HEIGHT	30"	36"	48"	24*	24"	18"	12"	

SIGN N	IUMBER	R7-1	R7-2	R7-3	R7-4	R7-5
LEGEND		NO PARKING ANY TIME	NO PARKING e.sowe TO 5:300PM	NO PARKING DOCUMENT AND INCOME.	NO STANDING ANY TIME	ONE HOUR PARKING 9AM-7PM
001.00	BACKGROUND	WHITE	WHITE	WHITE	WHITE	WHITE
COLOR	COPY	RED	RED	RED	RED	GREEN
SIGN	WIDTH	12"	12"	12"	12"	12"
DIMENSION	HEIGHT	18"	18"	18"	18"	18"

SIGN N	UMBER	R8	- 7		R <u>11-1</u>		R11-2
LEG	LEGEND		EMERGENCY STOPPING ONLY				ROAD CLOSED
001.00	BACKGROUND	WI-	WHITE			WHITE	
COLOR	COLOR COPY		BLACK		BLACK		BLACK
SIGN	SIGN WIDTH		30" 48"		36"	48"	48*
DIMENSION	HEIGHT	24"	36"	30"	48"	60"	30"

NOTES:

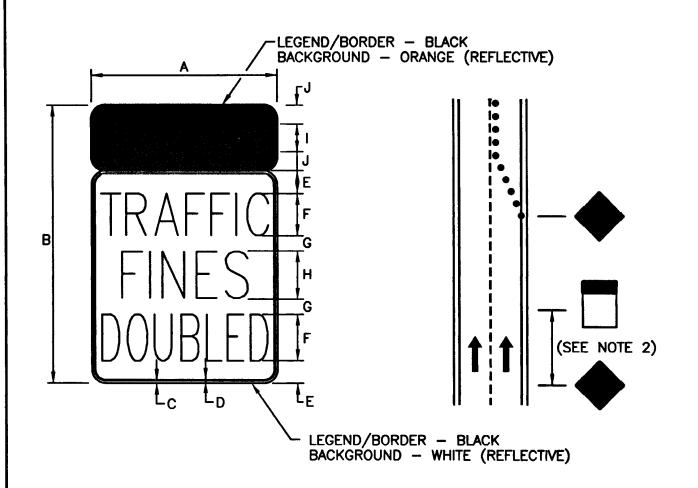
1. SHALL BE IN ACCORDANCE WITH SECTION
T.15 OF THE R.I. STANDARD SPECIFICATIONS.
2. * DENOTES TYPE TY GRADE SHEETING.
3. REGULARTORY SIGNS SHALL BE MOUNTED IN
ACCORDANCE WITH STD. 24.1.0, 24.2.0 OR
24.6.0.
4. THICKNESS OF ALUMINUM SIGN PLATES:
LESS THAN 10 SQ. FT. — 0.081 IN.
10 SQ. FT. TO 36 SQ. FT. — 0.102 IN.
GREATER THAN 36 SQ. FT. — 0.125 IN.
5. FOR ADDITIONAL SIGNS SEE THE MUTCD.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

RE\	/ISIONS		DECLU 4700V 010V0	
NO. BY	DATE		REGULATORY SIGNS	
		CHIEF ENGINEER THINISPORTATION	CHEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE

R.I. STANDARD 27.1.0

36" 48" 48" 60"



SIGN	DIMENSIONS (INCHES)									
SIGN	Α	В	С	D	E	F	G	Н	l	J
STANDARD	24	36	3/8	5/8	3 1/2	6B	2 1/2	6C	4C	2
RURAL	36	54	5/8	7/8	5	8B	4	8C	6C	3
EXPRESSWAY	48	72	3/4	1 1/4	7	10B	5	10C	8C	5

- 1. SHALL BE IN ACCORDANCE WITH SECTION T.15 OF THE R.I. STANDARD SPECIFICATIONS.

 2. STANDARD: > 50'-0" < 200'-0"

 RURAL: > 200'-0" < 400'-0"

 EXPRESSWAY: > 400'-0" <800'-0"
- 3. WHEN INSTALLING ON JERSEY BARRIERS LESS THAN 48" WIDE, A 36"x54" SIGN DIMENSION MAY BE USED.

		R	HODE ISLAND DEPAR	RTMENT OF TRA	ANSPORTATION	
	REVISI	IONS	TRAFFIC F	INES IN WOR	RK ZONE	
NO.	BY	DATE		ULATORY SIG		R.I.
			NLO	OLATOKI SIC	71 1	//STANDARD\\
			Chample Carelli &	Annual Perkerfr DESIGN ENGINEER	JUNE 15, 1998	∖∖27.1 <i>.1//</i>
			CHIZ ENGINEER CHIEF TEANSPORTATION TRAN	DESIGN ENGINEER SPORTATION	ISSUE DATE	
			<i>V</i>			

	SIGN	IUMBER	W1-1 (R OR L)	W1-2 (R OR L)	W1-3 (R OR L)	W1-4 (R OR L)	W1-5 (R OR L)
	DIGIT I	OMOLIN					
	LEG	END			⟨₹⟩		(3)
	COLOR	BACKGROUND	YELLOW	YELLOW	YELLOW'	YELLOW	YELLOW BLACK
	SIGN DIMENSION	WIDTH HEIGHT	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30" 36" 48" 30" 36" 48"	24" 30" 36" 48" 24" 30" 36" 48"
	SIGN I	UMBER	W1-6	W1-7	W2-1	W2-2 (R OR L)	W2-3 (R OR L)
	LEG	END		+	((F)	
	COLOR	BACKGROUND	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW BLACK
	SIGN	WIDTH	BLACK 48"	BLACK 48"	BLACK 30" 36" 48"	BLACK 30" 36" 48"	24" 30" 36" 48"
	DIMENSION	HEIGHT	24"	24"	30" 36" 48"	30" 36" 48"	24" 30" 36" 48"
	SIGN	NUMBER	₩3-1a	₩3-2a	W3-3	* W4-1	* W4-2 (R OR L)
	LEG	END	RED	WHITE	GREEN CHEEN		
	COLOR	BACKGROUND	YELLOW BLACK	YELLOW BLACK	YELLOW BLACK	YELLOW BLACK	YELLOW BLACK
	SIGN DIMENSION	WIDTH	30" 36" 48" 30" 36" 48"	30" 36" 48" 96" 30" 36" 48" 96"	30" 36" 48" 30" 36" 48"	30" 36" 48" 30" 36" 48"	30" 36" 48" 30" 36" 48"
	SIGN	NUMBER	W6-1	W6-2	W6-3	W7-1	W8-5
	LEG	END				45	
	COLOR	BACKGROUND	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
	SIGN DIMENSION	WIDTH HEIGHT	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30° 36° 48° 30° 36° 48°	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30" 36" 48" 30" 36" 48"
	SIGN	NUMBER	* W10-1	W11A-2	W11-2	W11-3	W12-1
	LEG	END	RR	*	(1)	3	
	COLOR	BACKGROUND	YELLOW	YELLOW	YELLOW	YELLOW	YELLOW
	SIGN DIMENSION	WIDTH HEIGHT	BLACK 36" DIA.	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30" 36" 48" 30" 36" 48"	BLACK 30" 36" 48" 30" 36" 48"	BLACK 24" 30" 36" 24" 30" 36"
	SIGN	NUMBER	W13-1	W13-2	W13-3	W14-1	W14-3
	LEG	END	OO M.P.H.	EXIT OO M.P.H.	RAMP OO M.P.M.	DEAD	NO PASSING ZONE 48°
	COLOR	BACKGROUND		YELLOW	YELLOW	YELLOW	YELLOW
	SIGN DIMENSION	COPY WIDTH HEIGHT	BLACK 18" 24" 18" 24"	BLACK 24" 36" 48" 30" 48" 60"	BLACK 24" 36" 48" 30" 48" 60"	24" 30" 36" 24" 30" 36"	48" 36"
	SIGN	NUMBER	* HAZARD MARKER	S1-1	S2-1	* E5-1 (R OR L)	* E5-1a (R OR L)
		END	* HAZARU MARKER	11		EXIT	EXIT 44
	<u> </u>	BACKGROUND	3" REFLECTORS (TYP.) YELLOW	YELLOW	YELLOW	GREEN	GREEN
	COLOR	COPY	REFLECTION SPACING TO BE THE SAME FOR ALL SIZE HAZAND MARKETS 24" 30" 36" 48"	BLACK 30" 36" 48"	BLACK 30" 36" 48"	WHITE 72"	WHITE 72"(90" WITH 3 DIGITS)
	DIMENSION	HEIGHT	24 30 36 46 24" 30" 36" 48"	30" 36" 48"	30" 36" 48"	60"	60"
	 * DENOTE WARNING 	'S TYPE XI G SIGNS SHALL	RADE SHEETING, IF USED	OF THE R.I. STANDARD SPEC WITHIN WORK ZONE USE TO NACE WITH STD. 24.1.0, 24.	PE I SHEETING.		
			RHOD	E ISLAND DEPART	MENT OF TRANSP	ORTATION	
NO.	REVISIONS DA	TE .		WARNII	NG SIGNS		RJ
.10.	1 2 1 0			***			// K.i. \

REVISIONS NO. BY DATE		WARNING SIGNS		R.I. STANDARD
	CHIEF ENGINEER TRYPSPORTATION	Edward Tarker fr. SHE DESIGN EDGINER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	28.1.0

REVISIONS 8 DATE RHODE ISLAND DEPARTMENT CONSTRUCTION 유 SIGNS TRANSPORTATION JUNE 15, 1998

STANDARD 29.1.0

SIGN	NUMBER		∗ W2	1-4			W20)-2			W2	0-3			W2	0-4	
LEGEND		(SEE NOTE	2)	ROAD WORK	>	(SEE NOTE		ETOUR	>	(SEI	E 2) -	ROAD CLOSEI	>	(SEE	: `	ONE LANI	>
001.00	BACKGROUND	ORANGE			ORANGE			ORANGE				ORANGE					
COLOR COPY			BLA	CK			BLA	CK			BLA	CK			BLA	CK	
	WIDTH	30"	36"	48"	96"	30"	36"	48"	96"	30"	36"	48"	96"	30 "	36*	48"	96"
DIMENSION		30"	36"	48"	96*	30"	36"	48"	96"	30"	36"	48"	96"	30"	36"	48"	96"

SIGN	NUMBER	W	/20-5	(R OR	L)		W20)-7			W20	-7a		★ G20-1
LEGEND		(SEE		RIGHT LAN CLOSED		(SEE NOTE 2)			(1)			•	ROAD WORK NEXT 5 MILES	
001.00	BACKGROUND	ORANGE			ORANGE			ORANGE				ORANGE		
COLOR	COLOR COPY		BLA	CK		Г	BLA	ACK			BL/	CK		BLACK
	WIDTH		36"	48"	96"	30"	36"	48"	96"	30"	36"	48"	96"	60"
DIMENSION	HEIGHT	30"	36"	48"	96"	30"	36"	48"	96"	30"	36"	48"	96"	24"

SIGN	NUMBER	± G20−2A
LEG	END	END ROAD WORK
COLOR	BACKGROUND	ORANGE
COLOR	COPY	BLACK
	WIDTH	48"
DIMENSION	HEIGHT	24"

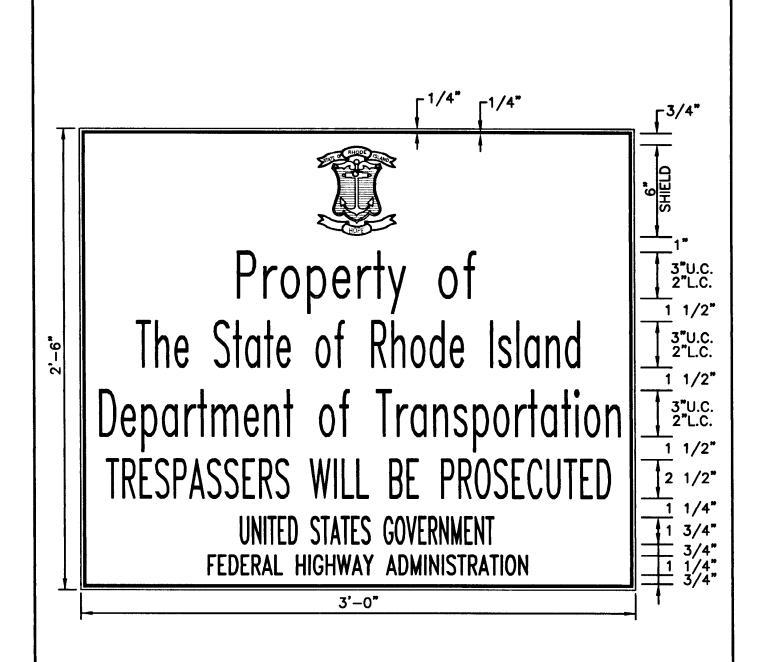
- NOTES:

 1. SHALL BE IN ACCORDANCE WITH SECTION 922 OF THE R.I. STANDARD SPECIFICATIONS.

 2. LEGEND ON W20-SERIES SHALL INDICATE DISTANCE AS FOLLOWS: 1500 FT 1/2 MILE
 1000 FT 1 MILE
 500 FT AHEAD

EXAMPLE: W20-2a = DETOUR 1500 FT

3. * DENOTES TYPE Y GRADE SHEETING.
4. CONSTRUCTION SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH STD. 24.1.0, 24.2.0 OR 24.3.0.
5. FOR ADDITIONAL SIGNS SEE THE MUTCD.



- 1. SHALL BE IN ACCORDANCE WITH SECTION 922 OF THE R.I. STANDARD SPECIFICATIONS.
- SIGN SHALL BE 3/4" EXTERIOR MARINE PLYWOOD OR ALUMINUM (THICKNESS = 0.081").
 SIGN SHALL HAVE A WHITE REFLECTORIZED BACKGROUND WITH A BLUE LEGEND AND LIGHT BLUE STATE SEAL.

RHODE	ISI AND	DEPARTMENT	ΩF	TRANSPORTATION
NIIODL	IJLAIIU	DEL ANTRICIAL	VI	INAISI ONTAHOR

NO.	REVIS BY	IONS DATE	FIELD OF	FICE IDENTIFICA	TION SIGN	R.I. STANDARD
			CHUS ENGINEER TEXASPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	29.1.1

SIGN	NUMBER			M1	-1			M1-4	M1-5 (SE	NOTE 1)	l N	12-1
LEG	END	R	NTERSTATE HODE ISLAN		RHODE ISLAND			00	F	0	STATE	CT
	BACKGROUND	STANDARD	INTERSTAT	E COLORS	STANDARD	INTERSTATI	E COLORS	BLACK-WHITE SHIELD	WH	TE	WHITE	WHITE
COLOR	COPY		WHITE			WHITE		BLACK	BLA	CK	BLACK	BLACK
	WIDTH	24"	36"	48"	30"	45*	60"	24"	24"	30"	21"	21"
DIMENSION	HEIGHT	24"	36"	48"	24"	36"	48"	24"	24"	24"	15"	15"

SIGN	NUMBER	M3-1,	2,3,4 (SEE N	DTE 3)		M4	-5		M4	I-6	M4-	8,9R	M4-10 (R (OR L)
LEGEND		NOR SOU			<u>-</u>	STA	T TE	O INTERS	STATE	BEGINS	ENDS	DETO	= -	DETC	DUR
001.00	BACKGROUND	WHI	ΠE	BLI	JE	WH	TE	BL	JE	WH	IITE	ORA	NGE	BLACK	
COLOR	COPY	BLA	CK	WH	ΤE	BLA	CK	WH	TE	BL	ACK	BLA	CK	BLACK (ORANGE	ARROW)
	WIDTH	24"	30"	24"	30"	24"	30"	24"	30"	24"	30"	24"	30°	48*	
DIMENSION	HEIGHT	12"	15"	12"	15"	12"	15"	12"	15"	12"	15"	12"	24"	18"	

SIGN	NUMBER	M5-1 (R OR L)	M5-2 (R OR L)	M5-1 (R OR L)	M5-2 (R OR L)	M6-1
				INTERSTATE	INTERSTATE	,
LEG	END	4	5	S	5	\rightarrow
001.00	BACKGROUND	WHITE	WHITE	BLUE	BLUE	WHITE
COLOR	COPY	BLACK	BLACK	WHITE	WHITE	BLACK
	WIDTH	21"	21"	21"	21"	21"
DIMENSION	HEIGHT	15"	15"	15"	15"	15"

SIGN	NUMBER	M6-2 (R OR L)	M6-3	M6-4	M6-1	M6-2 (R OR L)
			Ī			INTERSTATE
LEGEND			1			
	BACKGROUND	WHITE	WHITE	WHITE	BLUE	BLUE
COLOR	COPY	BLACK	BLACK	BLACK	WHITE	WHITE
	WIDTH	21"	21"	21"	21"	21"
DIMENSION	HEIGHT	15"	15*	15"	15"	15"

SIGN	NUMBER	M6-3	M6-4	1-4	D9-2	D10-1	D10-2
LEG	END	INTERSTATE	INTERSTATE	NA NA		MILE O	MILE 0 0
201.00	BACKGROUND	BLUE	WHITE	BLUE	BLUE	GR	EEN
COLOR	COPY	WHITE	BLACK	WHITE	WHITE (LETTER AND ARROW)	Wi-	ILLE
	WIDTH	21*	21"	24"x24"	24"x24"	10"	10"
DIMENSION	HEIGHT	15"	15"	24"x6" (PLAQUE)	24"x6" (PLAQUE)	18"	27*

SIGN	NUMBER	D10-3A	D10-4	D10-5	D11-1
LEG	END	1,1,1	MILE 0	Y-FREEWAY MILE 0	BIKE ROUTE
001.00	BACKGROUND	(SEE NOTE 2)	GR	EEN	GREEN
COLOR COPY			Wi-	IITE	WHITE
	WIDTH		12"	12"	24"x18"
DIMENSION	HEIGHT		24"	36"	24"x6" (PLAQUE)

NOTES:

1. SHALL BE IN ACCORDANCE WITH SECTIONS T.15 OF THE R.I. STANDARD SPECIFICATIONS.

2. SIGN M1-5:

A. LEGEND RI SHALL BE 4" SERIES D.

B. ONE NUMERAL SHALL BE 12" SERIES E.

C. TWO OR THREE NUMERALS SHALL BE 12" SERIES D.

D. BORDER - 5/8" BLACK, 3/8" WHITE

E. RADIUS - 1 1/2"

F. POST LENGTH SHALL BE 8'-0" FOR MP SIGNS.

3. M3-SERIES WIDTH SAME AS M1-SERIES WIDTH.

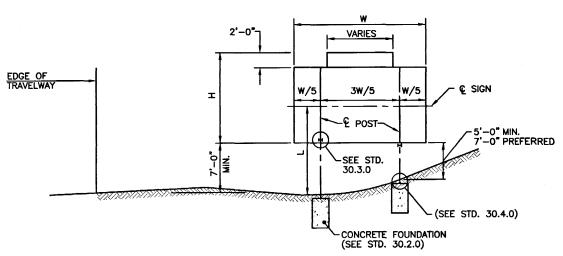
4. D10-3A MILE TENTH'S USE 24.6.3.

5. GUIDE SIGNS SHALL BE MOUNTED IN ACCORDANCE WITH STD. 24.1.0, 24.2.0, 24.6.2 OR 24.6.3.

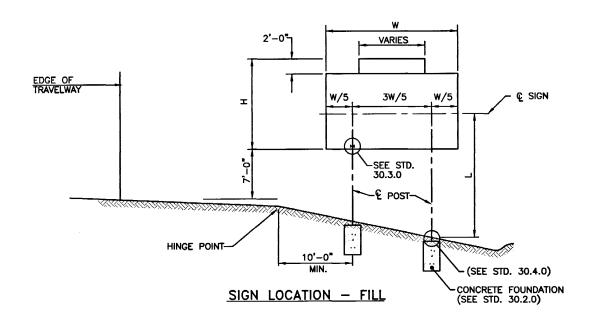
6. FOR ADDITIONAL SIGNS SEE THE MUTCD.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

			MIODE	IDEAND DELAKTMENT OF TRANSPORTAT	1011	
	REVIS	IONS				
NO.	BY	DATE		GUIDE SIGNS		// R.I.
		ļ				((STANDARD))
-	-	-	Charle Carlle	Elmot Parke for	JUNE 15, 1998	\\29.2.0 <i> </i>
	ļ		CHILL ENGINEER TRANSPORTATION	CHIEF DESIGN ENGINEER TRANSPORTATION	ISSUE DATE	



SIGN LOCATION - CUT



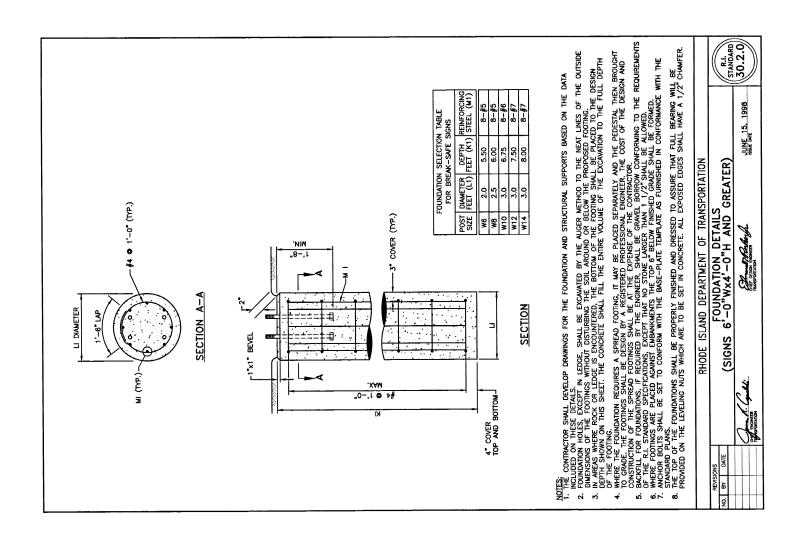
DETERMINE REQUIRED VALUES OF: W = MAXIMUM WIDTH OF SIGN H = MAXIMUM HEIGHT OF SIGN L = MAXIMUM DISTANCE BETWEEN TOP OF FOOTING AND CENTER LINE OF SIGN

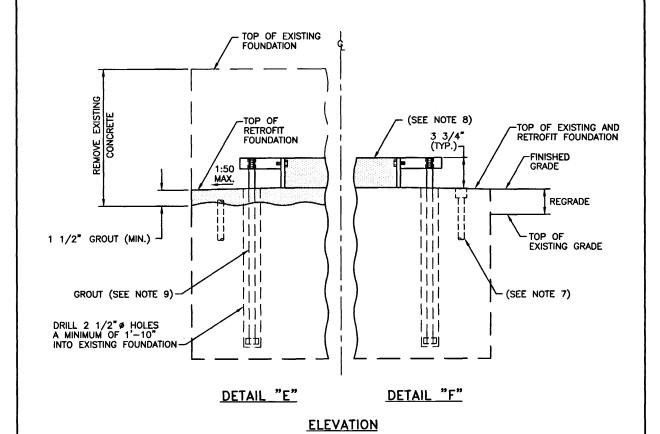
ENTER THE POST SELECTION TABLE WITH MAXIMUM VALUE OF "L" AND REQUIRED VALUES OF "W" AND "H" FOR SELECTION OF POST SIGN. FOR SIGN SIZES BETWEEN THOSE VALUES OF "W","H" AND "L" IN THE TABLE, USE NEXT HIGHER FOOT VALUE.

1	RHODE IS	LAND DEPARTMENT OF TRANSPOR	RTATION	
NO. BY DATE	(SIGNS	SIGN LOCATION DETAILS 6'-0"Wx4'-0"H AND GRE	ATER)	R.I. STANDARD
!	CHARLER THE STATE OF THE STATE	CHE DESIGN DIAMER THANSPORTATION	JUNE 15, 1998	30.1.0

POST ASSEMBLY TABLE FOR BREAKAWAY SIGNS 80 MPH WIND - 2 POST- ASTM A36 STEEL W HEIGHT OF SIGN "H" (FT.)																
W	L	L							<u> </u>	40	47 1		45	40	47	
(FT.)	(FT.)	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
8	5 8 10 12 14 16 18 20	W6X9 W6X9 W6X9 W6X9 W6X9 W6X12 W6X12 W6X12	W6X9 W6X9 W6X9 W6X9 W6X12 W6X12 W6X15	W6X9 W6X9 W6X9 W6X12 W6X12 W6X15 W6X15	W6X9 W6X9 W6X19 W6X12 W6X12 W6X15 W6X15	W6X9 W6X9 W6X12 W6X12 W6X15 W6X15 W6X15	W6X9 W6X12 W6X12 W6X15 W6X15 W6X15 >600LB	W6X9 W6X12 W6X12 W6X15 W6X15 >600LB >600LB	W6X9 W6X12 W6X15 W6X15 W6X15 >600LB >600LB	W6X9 W6X12 W6X15 W6X15 W6X15 W8X18 >600LB >600LB	W6X12 W6X12 W6X15 W6X15 W8X18 W8X18 >600LB >600LB	W6X12 W6X15 W6X15 W8X18 W8X18 >600LB >600LB >45LB	W6X12 W8X18 W8X18 W8X18 W8X18 >600LB >45LB	W8X18 W8X18 W8X18 W8X15 W8X21 >600LB >45LB	W10X22 W10X22 W10X22 W10X22 >600LB >600LB >45LB >45LB	W10X22 W10X22 W10X22 W10X22 >600LB >45LB >45LB >45LB
8	5 8 10 12 14 16 18 20	W6X9 W6X9 W6X9 W6X9 W6X12 W6X12 W6X15	W6X9 W6X9 W6X9 W6X9 W6X12 W6X12 W6X15	W6X9 W6X9 W6X9 W6X12 W6X12 W6X15 W6X15	W6X9 W6X9 W6X9 W6X12 W6X15 W6X15 W6X15 >600LB	W6X9 W6X9 W6X9 W6X12 W6X15 W6X15 >600LB	W6X9 W6X9 W6X12 W6X15 W6X15 W8X18 >600LB >600LB	W6X9 W6X12 W6X15 W6X15 W8X18 W8X18 >600LB >600LB	W6X12 W6X12 W6X15 W8X18 W8X18 W8X18 >600LB >45LB	W6X12 W6X12 W6X15 W8X18 >600LB >600LB >45LB	W6X12 W8X18 W8X18 W8X18 >600LB >45LB >45LB	W8X18 W8X18 W8X18 W8X18 W8X18 >600LB >45LB >45LB	W8X18 W10X22 W10X22 W10X22 >600LB >45LB >45LB >45LB	W8X21 W10X22 W10X22 W10X22 >600LB >45LB >45LB >45LB	W10X22 W10X22 W10X22 W10X22 >45LB >45LB >45LB >45LB	W10X22 W10X22 W10X22 W10X22 >45LB >45LB >45LB >45LB
10	6 8 10 12 14 16 18 20	W6X9 W6X9 W6X9 W6X9 W6X12 W6X12 W6X15 W6X15	W6X9 W6X9 W6X12 W6X12 W6X15 W6X15 W6X15	W6X9 W6X9 W6X19 W6X12 W6X15 W6X15 W6X15 >600LB	W6X9 W6X9 W6X12 W6X15 W6X15 W6X15 W8X18 >600LB	W6X9 W6X12 W6X12 W6X15 W8X18 W8X18 >600LB >600LB	W6X9 W6X12 W6X15 W8X18 W8X18 >600LB >45LB	W5X12 W6X12 W6X15 W8X18 W8X18 >600LB >600LB >45LB	W6X12 W6X15 W8X18 W8X18 W8X18 600LB >45LB >45LB	W6X12 W6X15 W8X18 W8X21 >600LB >45LB >45LB	W8X18 W10X22 W10X22 W10X22 >600LB >45LB >45LB >45LB	W8X18 W10X22 W10X22 W10X22 >600LB >45LB >45LB >45LB	W10X22 W10X22 W10X22 W10X22 >45LB >45LB >45LB >45LB	W10X22 W10X22 W10X22 W10X22 Y10X22 >45LB >45LB >45LB >45LB	W10X22 W10X22 W10X22 >45LB >45LB >45LB >45LB >45LB	>45LB >45LB >45LB >45LB >45LB >45LB >45LB >45LB
12	6 8 10 12 14 16 18 20	W6X9 W6X9 W6X9 W6X9 W6X12 W6X15 W6X15 W6X15	W6X9 W6X9 W6X9 W6X12 W6X15 W6X15 W6X15 W8X18	W6X9 W6X9 W6X12 W6X15 W6X15 W8X18 W8X18	W6X9 W6X12 W6X12 W6X15 W8X18 W8X18 W8X21 W8X21	W6X12 W6X12 W6X15 W8X18 W8X18 W8X21 W8X21 W10X26	W6X12 W6X12 W8X18 W8X18 W8X18 W8X21 W10X26 W10X26	W6X12 W6X15 W8X18 W8X18 W8X21 W10X22 W10X26 W10X26	W8X18 W8X18 W8X18 W8X21 W10X22 W10X26 W10X26 W10X26	W8X18 W8X18 W10X22 W10X22 W10X22 W10X26 W10X26 W14X30	W8X21 W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 W12X26 >600LB	W10X22 W10X22 W10X22 W10X22 W10X26 W10X26 W14X30 >600LB	W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 W10X26 >600LB >600LB	W10X22 W10X26 W10X26 W10X26 W12X26 W14X30 >600LB >600LB	W12X26 W12X26 W12X26 W12X26 W12X26 W12X26 W18X35 >600LB >600LB	W14X30 W14X30 W14X30 W14X30 W14X30 W18X35 >600LB
14	6 8 10 12 14 16 18 20	W6X9 W6X9 W6X9 W6X12 W6X12 W6X15 W6X15 W6X15	W6X9 W6X9 W6X9 W6X12 W6X15 W6X15 W8X18 W8X21	W6X9 W6X9 W6X12 W6X15 W8X18 W8X18 W8X21 W8X21	W6X9 W6X12 W6X12 W8X18 W8X18 W8X21 W8X21 W8X21	W6X12 W6X12 W6X15 W8X18 W8X18 W8X21 W10X26 W10X26	W6X12 W6X15 W8X18 W8X18 W8X21 W10X22 W10X26 W10X26	W8X18 W8X18 W8X18 W8X21 W10X22 W10X26 W10X26 W14X30	W8X18 W8X18 W10X22 W10X22 W10X26 W10X26 W12X26 >600L8	W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 W14X30 >600LB	W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 W12X26 >600LB >600LB	W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 W14X30 >600LB >600LB	W10X22 W12X26 W12X26 W12X26 W12X26 W18X35 >600LB >600LB	W10X22 W12X26 W12X26 W12X26 W14X30 W18X35 >600LB	W14X30 W14X30 W14X30 W14X30 W18X35 >600LB >600LB	W16X31 W16X31 W16X31 W16X31 W18X35 >600LB
16	6 8 10 12 14 16 18 20	W6X9 W6X9 W6X9 W6X12 W6X15 W6X15 W6X15 W6X15	W6X9 W6X9 W6X12 W6X15 W6X15 W8X18 W8X18 W8X21	W6X9 W6X12 W6X12 W8X18 W8X18 W8X18 W8X21 W10X26	W6X12 W6X12 W6X15 W8X18 W8X18 W8X21 W10X22 W10X26	W6X12 W6X15 W6X15 W8X18 W8X21 W10X22 W10X26 W10X26	W6X15 W6X15 W8X18 W8X21 W10X22 W10X26 W10X26 W14X30	W8X18 W8X18 W10X22 W10X22 W10X22 W10X26 W12X26 >600LB	W10X22 W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 W14X30 >600LB	W10X22 W10X22 W10X22 W10X26 W10X26 W14X30 >600LB	W10X22 W10X22 W10X26 W10X26 W12X26 W18X35 >600LB	W10X22 W12X26 W12X26 W12X26 W14X30 W18X35 >600LB	W10X26 W14X30 W14X30 W14X30 W18X35 >600LB	W12X26 W14X30 W14X30 W16X31 W16X35 >600LB	W16X31 W16X31 W16X31 W16X35 >600LB	W18X35 W18X35 W18X35 W21X44
18	6 8 10 12 14 16 18 20	W6X9 W6X9 W6X9 W6X12 W6X15 W6X15 W8X18 W8X21	W6X9 W6X12 W6X12 W6X15 W8X18 W8X18 W8X21	W6X12 W6X12 W6X15 W6X15 W8X18 W8X18 W8X21 W8X21 W10X26	W6X12 W6X15 W6X15 W8X18 W8X21 W10X22 W10X26 W10X26	W6X15 W6X15 W8X18 W8X21 W10X22 W10X26 W10X26 W12X26	W8X18 W8X18 W8X21 W10X22 W10X22 W10X26 W10X26 >600LB	W8X18 W8X18 W10X22 W10X22 W10X26 W10X26 W10X26 W14X30 >600LB	W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 >600LB >600LB	W10X22 W10X22 W10X26 W10X26 W10X26 W12X26 W18X35 >600LB	W10X22 W12X26 W12X26 W12X26 W16X31 W18X35 >600LB	W10X22 W14X30 W14X30 W16X31 W18X35 >600LB	W12X26 W16X31 W16X31 W16X35 >600LB	W14X30 W18X35 W18X35 W21X44	W21X44 W21X44 W21X44	W21X44 W21X44 W21X44
20	6 8 10 12 14 16 18 20	W6X9 W6X9 W6X12 W6X12 W6X15 W8X18 W8X18 W8X21	W6X9 W6X12 W6X12 W8X18 W8X18 W8X18 W8X18 W8X21 W10X26	W6X12 W6X12 W6X15 W6X15 W8X18 W8X21 W10X26 W10X26	W6X12 W6X15 W8X18 W8X21 W8X21 W10X22 W10X26 W10X26	W6X15 W8X18 W8X18 W10X22 W10X22 W10X26 W10X26 W14X30	W8X18 W8X18 W10X22 W10X22 W10X26 W10X26 W14X30 >600LB	W10X22 W10X22 W10X22 W10X26 W10X26 W10X26 W10X26 >600LB	W10X22 W10X22 W10X26 W10X26 W12X26 W18X35 >600LB >600LB	W10X22 W10X22 W10X26 W10X26 W16X31 W16X31 W18X35 >600LB	W10X22 W12X26 W12X26 W16X31 W16X35 >600LB	W12X26 W16X31 W16X31 W16X35 >600	W14X30 W18X35 W18X35 W21X44	W16X31 W21X44 W21X44	W21X44 W21X44	

		RHODE	ISLAND DEPARTMENT OF TRANSPOR	RTATION	
NO. BY C	S DATE	POST SELI (SIGN:	ECTION TABLE FOR BREAKAV S 6'-0"Wx4'-0"H AND GRE	VAY SIGNS (ATER)	R.I. STANDARD
		CHEF ENGINEER THINKSPORTATION	CHES DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998	30.1.1





- 1. FOR CONCRETE CLASS, SEE SECTION 601.01.1, TABLE 1 OF THE R.I. STANDARD SPECIFICATIONS.

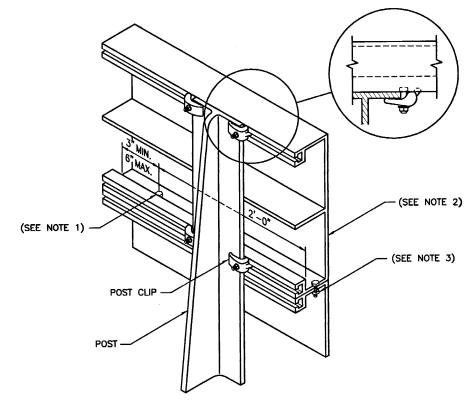
 2. WHEN EXISTING POST IS ATTACHED TO FOUNDATION BY ANCHOR BOLTS, REMOVE EXISTING ANCHOR BOLTS A MINIMUM OF 1"BELOW TOP OF NEW FOUNDATION. A 3 3/4" DEEP SECTION OF POST SHALL BE USED TO ATTACH THE ANCHOR PLATES. ANY UNCOATED PORTION OF THE SECTION SHALL BE PAINTED WITH AN APPROVED ZINC RICH PAINT.

 3. WHEN EXISTING POST IS EMBEDDED IN A FOUNDATION, REMOVE POST APPROXIMATELY 3 3/4" ABOVE TOP OF NEW FOUNDATION, INSTALL ANCHOR PLATES AND PAINT TOP OF POST WITH AN APPROVED ZINC RICH PAINT.

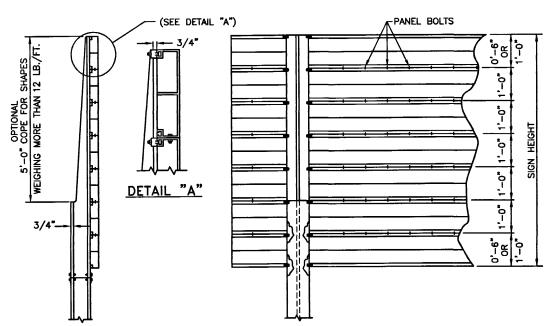
 4. AFTER CORRECTLY POSITIONING ANCHOR BOLTS AND ANCHOR PLATES, FILL HOLES WITH NON-SHRINK GROUT.

 5. PAINT ANY EXPOSED EXISTING REINFORCING BARS WITH A ZINC RICH PAINT BEFORE APPLYING GROUT.

1	RHODE	<u>ISLAND DEPARTMENT OF TRANSPO</u>	RTATION	
NO. BY	FOUNDATE (SIGNS		ETROFIT ATER)	R.I. STANDARD
	Criff ENGINEER THE	Efformat Parker fr. THE DESIGN DEGINEER THIS SPORTATION	JUNE 15, 1998 ISSUE DATE	30.2.1



ISOMETRIC SHOWING SIGN COMPONENTS



 $\frac{\text{REAR} \ \ \text{ELEVATION}}{\text{Showing arrangement of post clips (both posts or all posts) and panel bolts}$

- NOTES:

 1. PANEL HEX BOLT AND WASHER ASTM-B211 ALUMINUM ALLOY 2024-T4 3/4"-16x3/4" LONG.

 2. ALUMINUM SIGN PANEL (TYPE B) ALUMINUM ALLOY 6063-T6 ASTM-B221 THICKNESS 0.125".

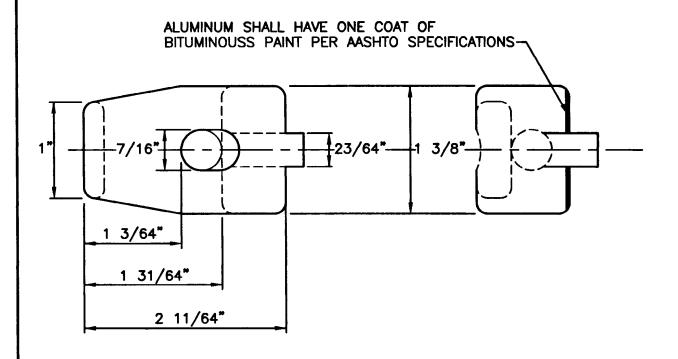
 3. PANEL HEX NUT, ALUMINUM ALLOY 6062-T9 3/8"-16 HEX. HD. NUT ASTM-B211.

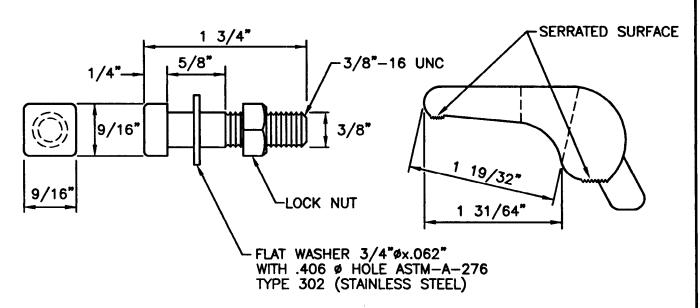
 4. ALL EXTRUDED ALUMINUM PANELS SHALL HAVE SIDE MOULDINGS.

 5. PANEL BOLTS TO BE PLACED SYMMETRICALLY ABOUT © OF SIGN PANEL.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION

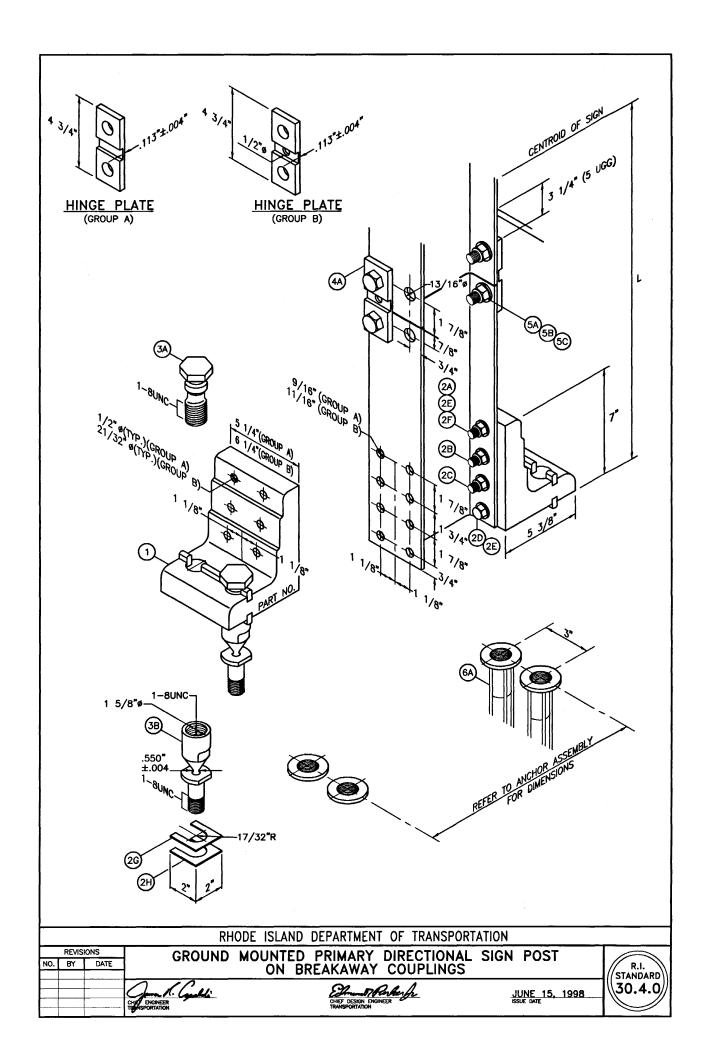
-	O. BY	SIONS DATE	(SIGI	SIGN PANEL DETAILS S 6'-0"Wx4'-0"H AND GREATER)	R.I. STANDARD
			CHUY ENGINEER THE ASPORTATION	CHEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	30.3.0





- 1. BOLT SHALL BE STAINLESS STEEL ALLOY 304 ASTM-A-193-GRADE B8 OR ASTM-A-194-GRADE 8.
- 2. NUT SHALL BE STAINLESS STEEL ALLOY 303 ASTM-A-193-GRADE B 8F OR OR ASTM-A-194-GRADE 8F.
- 3. CLIP SHALL BE ALUMINUM ALLOY 356-T6 (SG70A) ASTM-B26.

			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	ONS	POST CLIP AND BOLT DETAIL	
NO.	BY	DATE	(FOR EXTRUDED ALUMINUM)	R.I. STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	30.3.1
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



	BRACKET SELECTION TABLE										
POST SIZE		#1 E=.100"		#2 E=.150"		#3 E=.200"		#4 E=.250"			
		MIN. L	MAX. L	MIN. L	MAX. L	MIN. L MAX. L		MIN. L	MAX. L		
GROUP A	6 WF 9 6 WF 12 6 WF 15 8 WF 18 8 WF 21	12'-2" 12'-4" 12'-4" 14'-1" 14'-3"	25'-0" 25'-0"	8'-7" 8'-9" 8'-9" 10'-0" 10'-2"	12'-1" 12'-3" 12'-3" 14'-0" 14'-2"	6'-7" 6'-9" 6'-9" 7'-9" 7'-11"	8'-6" 8'-8" 8'-8" 9'-11" 10'-1"	 	6'-6" 6'-8" 6'-8" 7'-8" 7'-10"		
GROUP B	10 WF 22 10 WF 26 12 WF 26 14 WF 30	15'-9" 15'-10" 17'-6" 19'-3"	25'-0"	11'-3" 11'-4" 12'-6" 13'-10"	15'-8" 15'-9" 17'-5" 19'-2"	8'-7" 8'-8" 9'-7" 10'-8"	11'-2" 11'-3" 12'-5" 13'-9"	 	8'-6" 8'-7" 9'-6" 10'-7"		

	BOLT CIRCLE (DIAMETER)				
GROUP A	6 WF 9 6 WF 12 6 WF 16 6 WF 20 8 WF 18 8 WF 21 8 WF 24	15-1/4" 15-3/8" 15-1/2" 15-1/2" 17-1/4" 17-3/8" 17-1/8"			
GROUP B	10 WF 22 10 WF 26 10 WF 30 12 WF 26 12 WF 30	19-1/2" 19-5/8" 19-3/4" 21-1/2" 23-3/16"			

- 1. SHALL MEET ALL REQUIREMENTS OF "AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS."
- 2. ALL HARDWARE (AMERICAN STANDARD) SUPPLIED ISHALL BE HOT DIP GALVANIZED PER ASTM A153 OR MECHANICALLY GALVANIZED PER ASTM B695.
- 3. FASTENERS, EXCEPT FOR SPECIAL BOLT AND COUPLING SHALL BE INSTALLED WITH LOCKWASHERS OR LOCKNUTS AND DO NOT HAVE SPECIFIC TORQUE REQUIREMENTS. FASTNERS SHOULD BE MADE AS TIGHT AS POSSIBLE WITH CONVENTIONAL WRENCHES UNLESS NOTED OTHERWISE.
- 4. SQUARE AND LEVEL INDIVIDUAL COMPONENTS TO MINIMIZE NEED FOR SHIMMING.
- 5. STRUCTURAL STEEL TO BE HOT DIP GALVANIZED PER ASTM A123 AFTER FABRICATION.
- 6. NO MORE THAN TWO SHIMS UNDERNEATH ANY ONE COUPLING AND NO MORE THAN THREE SHIMS UNDERNEATH ANY TWO COUPLINGS.
- THREE SHIMS UNDERNEATH ANY TWO COUPLINGS.

 7. SELECT PROPER POST SIZE BY REFERRING TO POST SELECTION TABLES FOR MEDIUM AND LARGE SIGNS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	BRACKET SELECTION TABLE	
NO.	BY	DATE	BOLT CIRCLE AND GENERAL NOTES	R.I. STANDARD
			CHIEF ENGINEER THATSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	30.4.1

INSTALLATION NOTES:

WRENCH SIZES REQUIRED: 9/16", 7/8", 1", 1 1/16", 1 1/4", 1 7/16", 1 5/8"

ANCHOR ASSEMBLY:

- 1. ASSEMBLE COUPLING ANCHORS 6A TO INSTALLATION TEMPLATE (NOT SHOWN). RIGID STEEL TEMPLATE IS RECOMMENDED.
- 2. LOWER ENTIRE ANCHOR ASSEMBLY INTO FRESH CONCRETE AND VIBRATE INTO POSITION SO THAT THE TOPS OF THE INDIVIDUAL ANCHORS 6A ARE FLUSH WITH THE FINISHED TOP SURFACE OF THE FOOTINGS.

BRACKET ASSEMBLY:

- 1. ASSEMBLE BRACKET TO POST WITH BOLTS PROVIDED.
- 2. SQUARE AND TIGHTEN. (ITEMS 1, 2A, 2B, 2C, 2D, 2E, AND 2F)

HINGE ASSEMBLY:

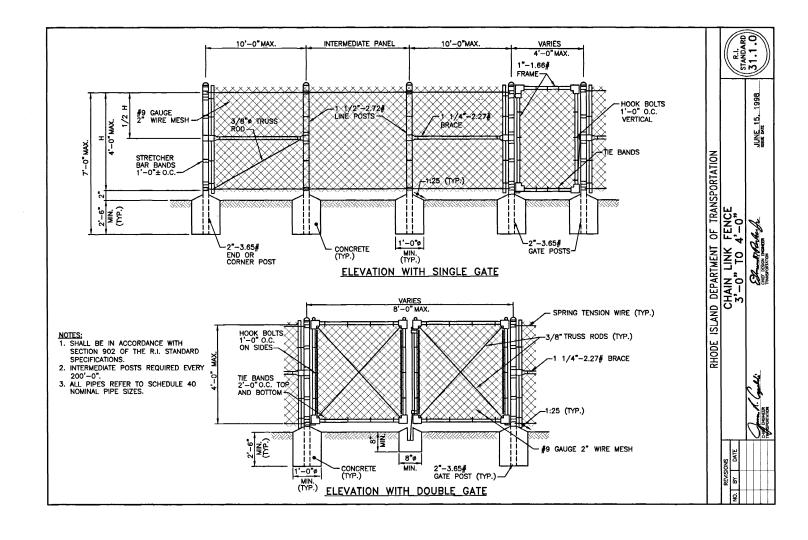
- 1. BUTT UPPER AND LOWER POSTS TOGETHER ON FLAT SURFACE.
- 2. PLACE HINGE PLATES 4A ON OUTER FLANGES AND SECURE WITH BOLTS 5A, 5B AND 5C. SNUG BUT DO NOT TIGHTEN.
- 3. MAKE SURE UPPER AND LOWER POSTS ARE IN ALIGNMENT, THEN TIGHTEN ALL NUTS 5C TO PROOF LOAD (1/2 TURN BEYOND SNUG).

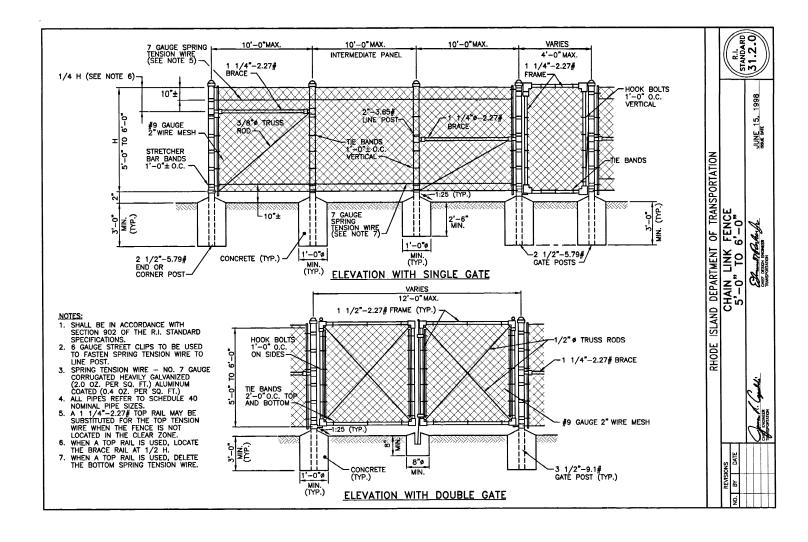
COUPLING ASSEMBLY:

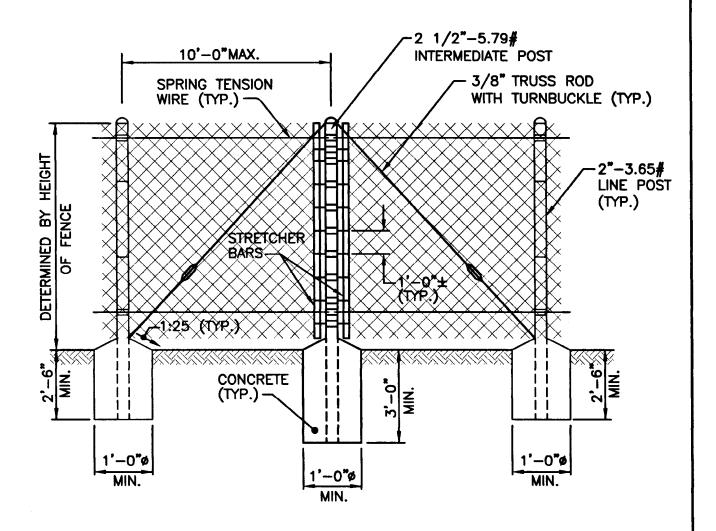
- 1. SUSPEND POST OVER FOOTING AND INSERT SPECIAL BOLTS 3A THROUGH BRACKET 1.
- 2. BELOW BRACKET, THREAD COUPLINGS 3B INTO ANCHORS 6A BUT LEAVE LOOSE.
- 3. LOWER POST WITH SPECIAL BOLTS 3A ONTO LOOSE COUPLINGS 3B AND THREAD BOLTS INTO COUPLINGS.
- 4. THREAD COUPLINGS ALL THE WAY IN ANCHORS 6A.
- 5. TIGHTEN SPECIAL BOLTS 3A. DO NOT PLACE TORQUE ACROSS NECKED DOWN PORTION OF COUPLINGS. WRENCH FLATS ARE PROVIDED ON EITHER SIDE FOR PROPER TIGHTENING.
- 6. IF POST IS NOT PLUMB, INSERT SHIMS 2G AND 2H BETWEEN COUPLINGS 3B AND AND ANCHOR 6A.

			RHODE	ISLAND	DEPARTMENT	OF TRA	ANSPORTATION	
	REVIS	IONS						
NO.	BY	DATE		ł	NSTALLATIO	רסא אכ	res	R.I.
			1	10		2 4 1		((STANDARD)
			CHIEF ENGIN	LM. (geald	CHIEF DESIGN ENGINE	er fr	JUNE 15, 1998 ISSUE DATE	30.4.2
			TRASSPORTA	TION	TRANSPORTATION			

	NO. BY			BILL OF MATERIALS	
	BY D		ITEM	DESCRIPTION	QTY./POST
	DATE		1 BRACKET	6061- T6 ALUMINUM (SEE BRACKET SELECTION TABLE)	2
ONE BHOWER CALL BY TRANSPORTATION	RHODE ISLAND DEPARTMENT OF BILL OF MATE	ISLAND DEPARTMENT OF	3B COUPLING	BRACKET HARDWARE ASSEMBLY: GROUP A - 1/2"-13UNC x 2-1/2", HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP B - 5/8"-11UNC x 2-3/4", HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP A - 1/2"-13UNC x 2-3/4", HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP B - 5/8"-11UNC x 3", HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP B - 5/8"-11UNC x 3", HEX HEAD, ASTM 325, GALV., ASTM A153 GROUP A - 1/2"-13UNC x 3-1/4", HEX HEAD, ASTM A325, GALV., ASTM A153 GROUP A - 1/2"-13UNC x 1-1/4", HEX HEAD, ASTM A307, GALV., ASTM A153 GROUP B - 1/2"-13UNC x 1-1/4", HEX HEAD, ASTM A307, GALV., ASTM A153 GROUP B - 1/2", ANSI B18-21-1, GALV., ASTM A153 GROUP A - 1/2", ANSI B18-21-1, GALV., ASTM A153 GROUP B - 5/8", ANSI B18-21-1, GALV., ASTM A153 GROUP B - 5/8"-11UNC, HEAVY HEX, ASTM A563, GR. DH, GALV., ASTM A1531 GROUP B - 21" HORSESHOE, 18 GAUGE, GALV., STEEL SHEET GROUP B - 1" HORSESHOE, 18 GAUGE, GALV., STEEL SHEET 1"HORSESHOE, 14 GAUGE, GALV., STEEL SHEET COUPLING AND BOLT ASSEMBLY: 1"-8 UNC ASTM A449, GALV., ASTM A153/B695 1"-8 UNC LP., AMS 63780", GALV., ASTM A153, POLYESTER COAT HINGE ASSEMBLY:	4 4 4 4 4 4 16 16 2 2 2 2 2 2
JUNE 15,	S	NSPO	4A HINGE PLATE	GROUP A - TYPE B525, AISI A130 STEEL, GALV., ASTM A123 GROUP B - TYPE B650, AISI 4130 STEEL, GALV., ASTM A123	4 4
15, 1998		TRANSPORTATION	5A BOLT 5B LOCKWASHER 5C NUT	HINGE HARDWARE ASSEMBLY: 3/4"-10UNC x 2-1/4", HEX HEAD, ASTM A325, GALV., ASTM A153 3/4"ANSI B18-21-1, GALV., ASTM A153 3/4"-10UNC, HEAVY HEX, ASTM A563, GR. DH, GALV., ASTM A153	8 8 8
(Z)			6A ANCHOR	ANCHOR ASSEMBLY: GROUP A -1"-8UNC, 304 S.S. FERRULE, AISI 1038 ROD. AISI 1008 COIL GROUP B -1"-8UNC, 304 S.S. FERRULE, AISI 1008 COIL	4 4
\$0.4.3	R.I.			*WITH EXCEPTION TO DECARBURIZATION AND MACROSTRUCTURE CLAUSES **2-4 MIL. THICK MORTON POWDER COATINGS' 20-7037 POLYESTER POWDER COAT	Γ

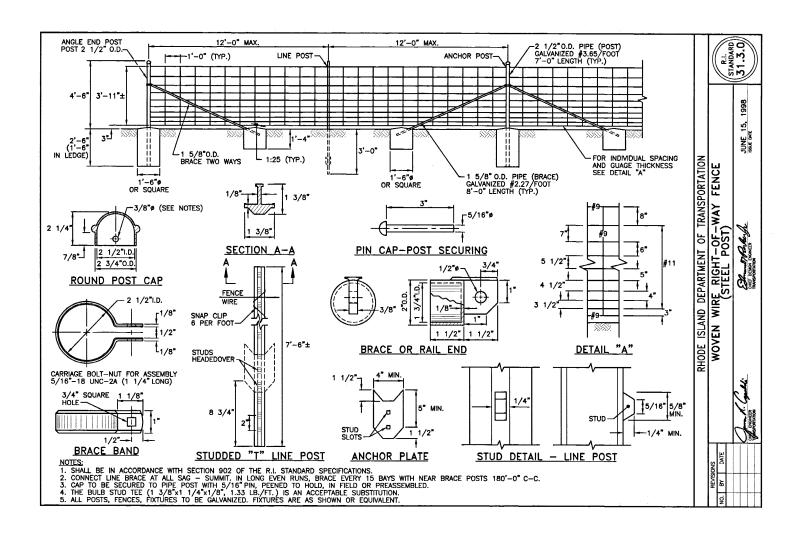


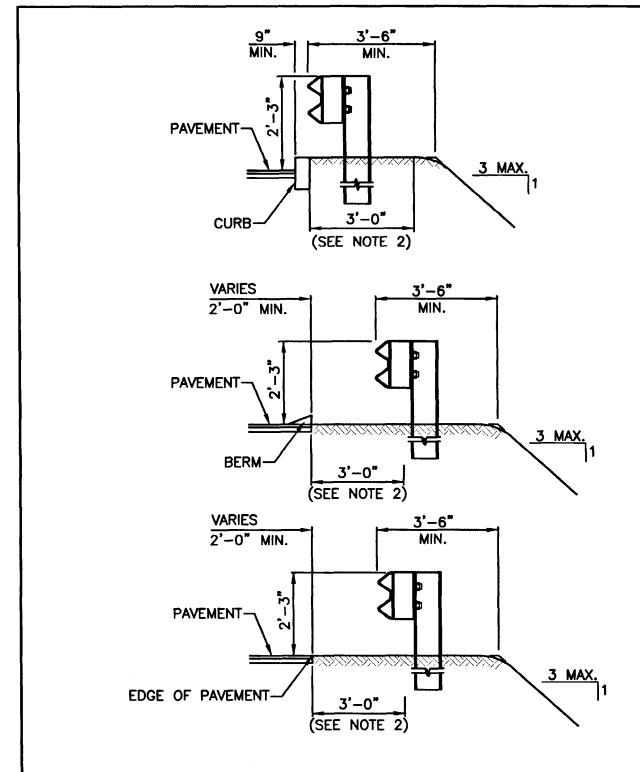




- 1. SHALL BE IN ACCORDANCE WITH SECTION 902 OF THE R.I. STANDARD SPECIFICATIONS.
 2. INTERMEDIATE POSTS REQUIRED EVERY 200'-0".
- 3. ALL PIPES REFER TO SCHEDULE 40 NOMINAL PIPE SIZES.

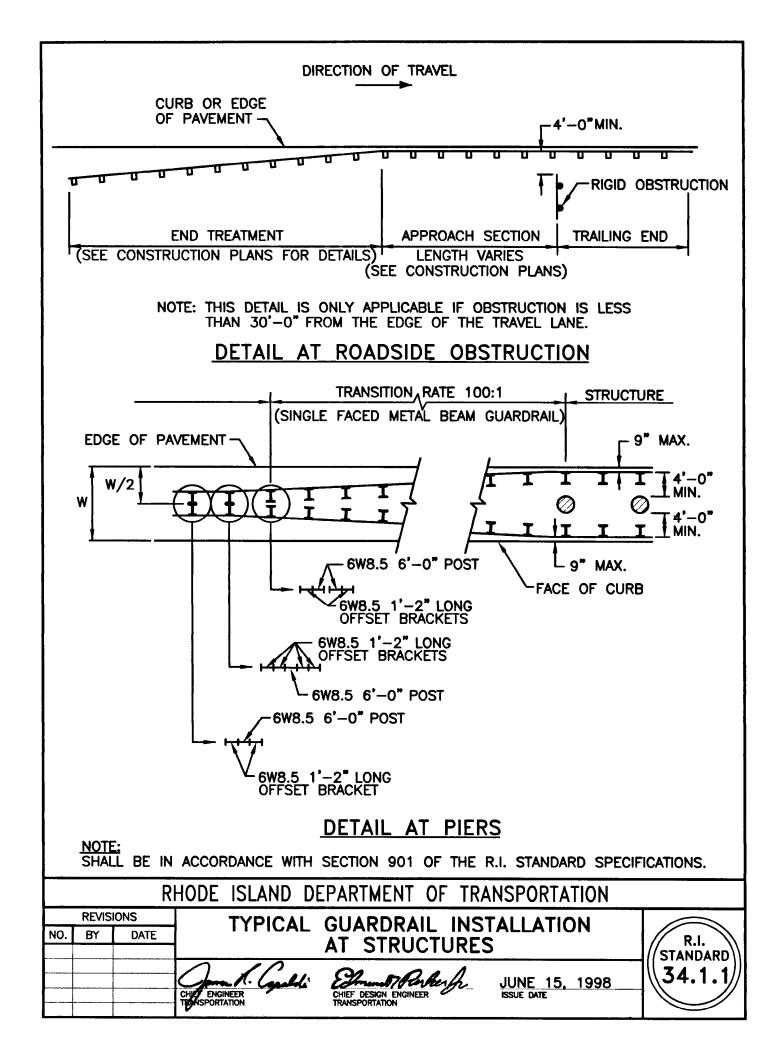
			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	CHAIN LINK FENCE 5'-0" TO 6'-0"	
NO.	BY	DATE	CHAIN LINK FENCE 5'-0" TO 6'-0" INTERMEDIATE POST	R.I.
			INTERMEDIATE POST	//STANDARD\\
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	31.2.1

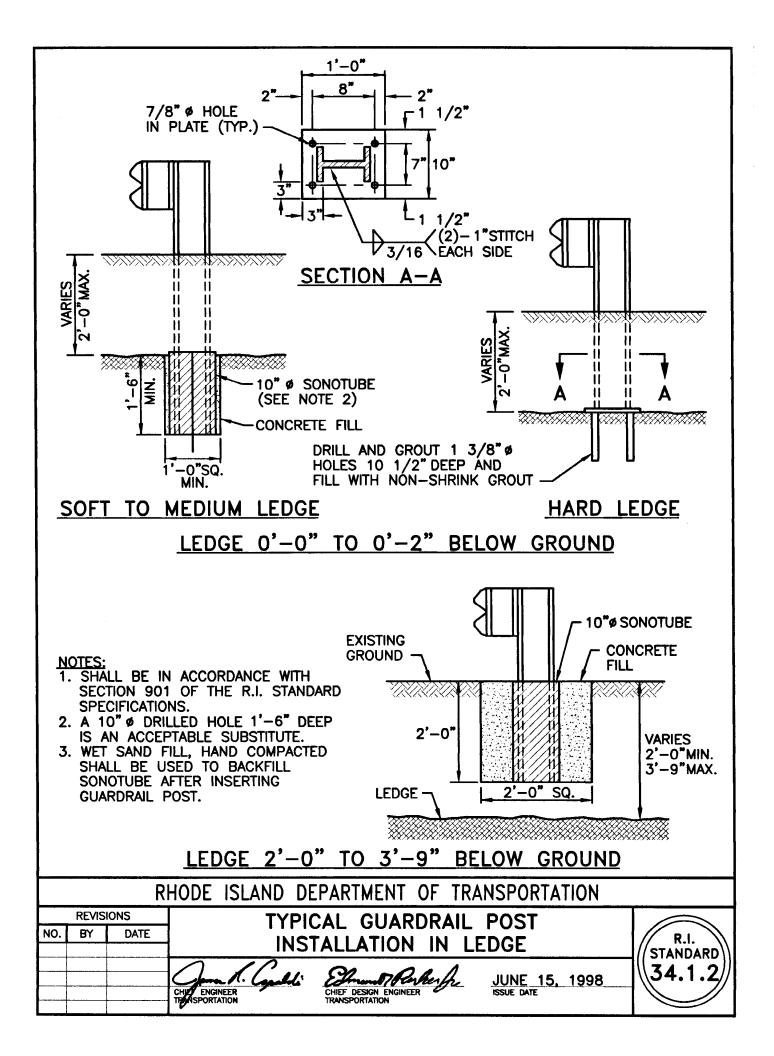


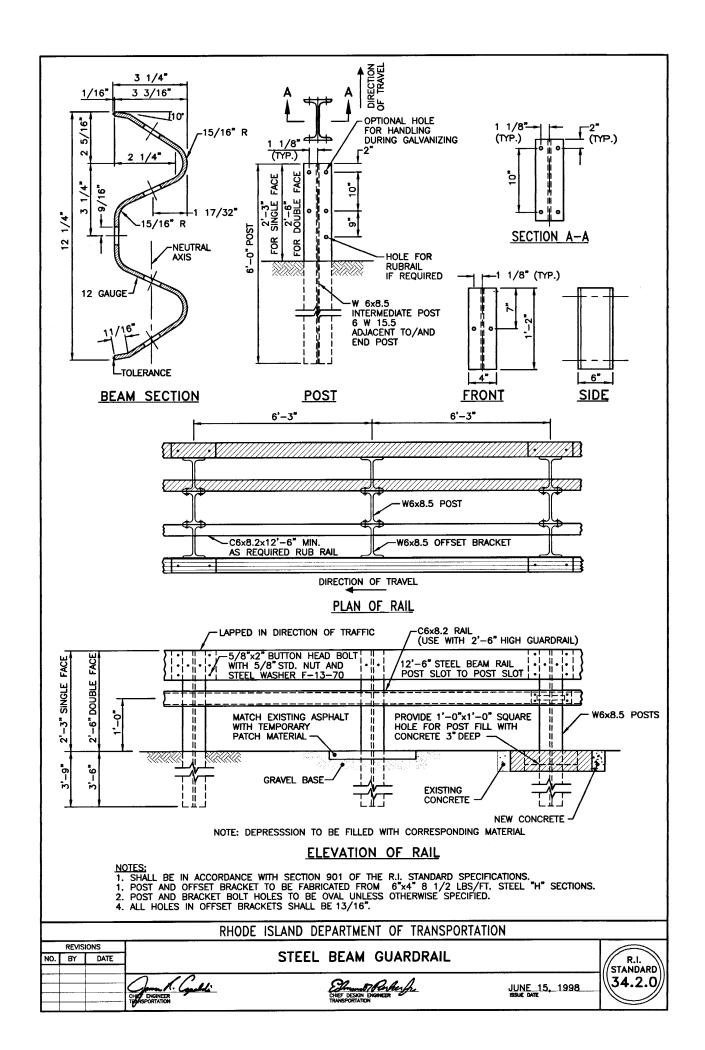


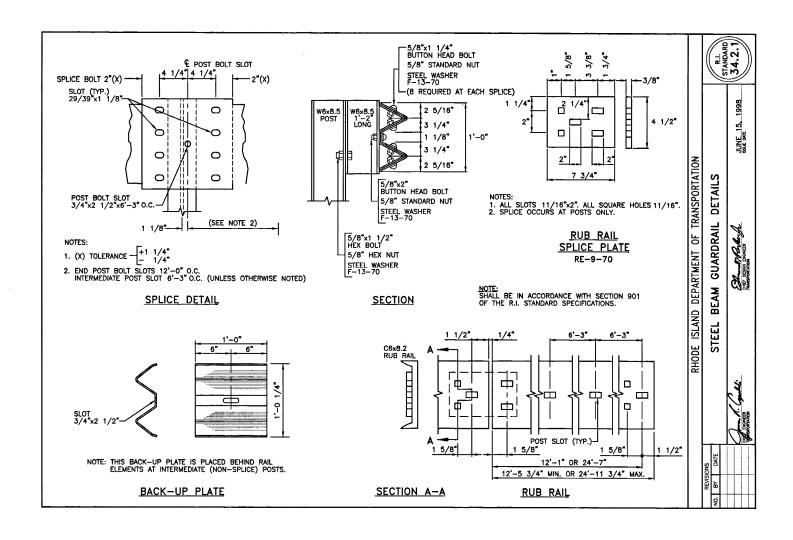
- 1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.
 2. TREAT THIS AREA WITH HERBICIDE AFTER THE GUARD RAIL INSTALLATION AS REQUIRED.

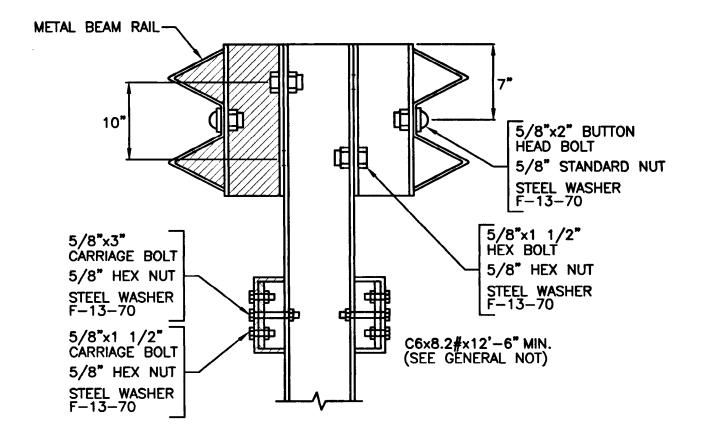
	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS NO. BY DATE	TYPICAL GUARDRAIL INSTALLATION	R.I. STANDARD
	CHIEF DESIGN ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE	34.1.0









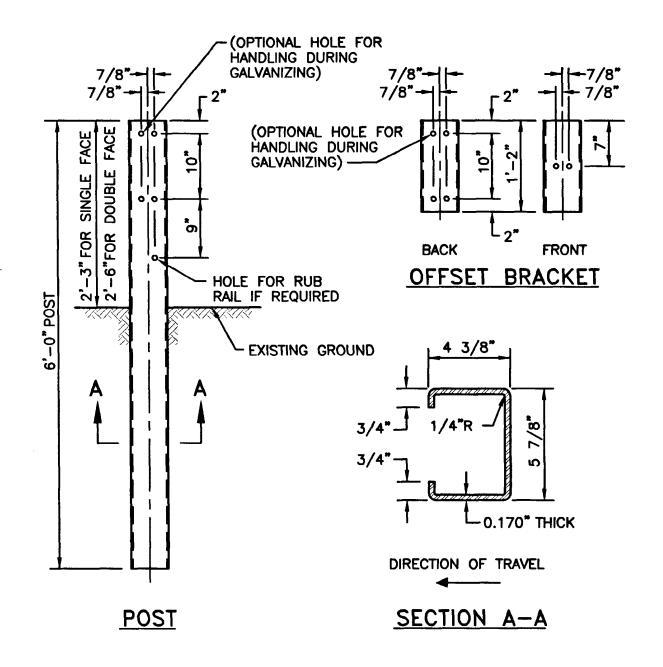


- 1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. ALL DIMENSIONS SUBJECT TO MANUFACTURING TOLERANCES.
- 3. AFTER GALVANIZING THE NUT SHALL BE FREE RUNNING ON THE BOLT.
 4. THE RAIL ELEMENT SHALL BE SHOP CURVED WHEN THE PLACEMENT OF GUARDRAIL IS ON A CURVE HAVING A RADIUS OF 150'-0" OR LESS.

			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	STEEL BEAM GUARDRAIL	
NO.	BY	DATE	DOUBLE FACED ASSEMBLY	R.I.
			DOODLE TACED ASSEMBLE	//STANDARD
			CHUE ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	 \\34.2.2 //
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE THANSPORTATION TRANSPORTATION ISSUE DATE	

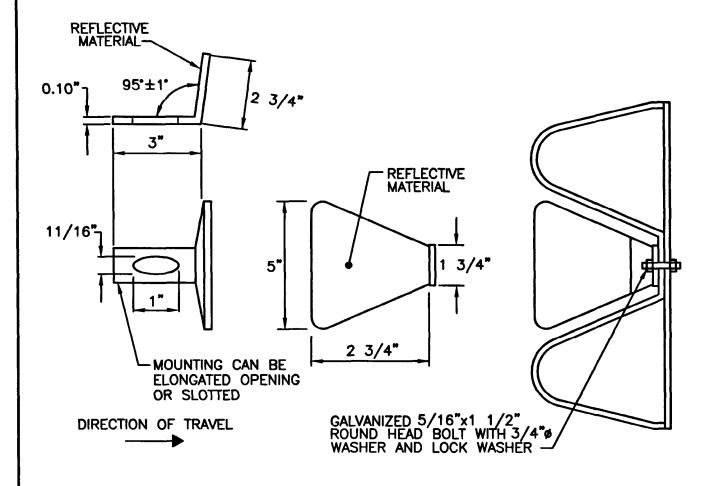
	Š							
	RRVSIONS PART INTENDED USE BY AS SPLICE ON "W"				BOLT SELEC	BOLT SELECTION TABLE		
			PH.	INTENDED USE	BOLT TYPE	L	THREAD LENGTH	NUT TYPE
	DATE	고	BE N	AS SPLICE ON "W" BEAM GUARD RAIL	5/8" Ø BUTTON HEAD	1 1/4"	FULL	5/8" ø STANDARD
CHIEF ENGINEER THE ASPORTIATION	STI	RHODE I	ACCORDANCE	FOR FASTENING "W" BEAM RAIL TO STEEL POSTS OR BRACKET	5/8" ø BUTTON HEAD	2*	1 1/2" MIN.	5/8" Ø STANDARD
Sal.	STEEL BE	ISLAND [DANCE WITH	AS SPLICE BOLT FOR CHANNEL RUB RAIL ELEMENTS USED IN "W" BEAM GUARD RAIL	5/8" Ø CARRIAGE HEAD	1 1/4"	FULL	5/8" ø HEX
Man The March CHEF DESIGN ENGINEER TRANSPORTATION	BEAM GU	DEPARTMENT	SECTION 901	FOR FASTENING CHANNEL RUB RAIL ELEMENTS TO STEEL POSTS IN "W" BEAM GUARD RAIL	5/8" Ø CARRIAGE HEAD	3"	1 1/2" MIN.	5/8" ø HEX
PAL	GUARDRAIL		901 OF	FOR FASTENING STEEL BLOCK TO STEEL POSTS	5/8"ø HEX	1 1/2"	FULL	5/8" ø HEX
JUNE 15, 1998	RANSPORTATION FIXTURES JUNE 15, 19			3" 1" 1" 11/16" : USE ONLY AT 8th POST	29/32"	/8*	-29/64"R 3/4"	2 1/2" -3/8"R 6'-3" O.C.
34.2.3	R.I. STANDARD		IFICATI	RECTANGULA PLATE WASHER F-	AR SPLIC	E BOL LOT	<u>.T PO</u>	ST BOLT SLOT

 \Box



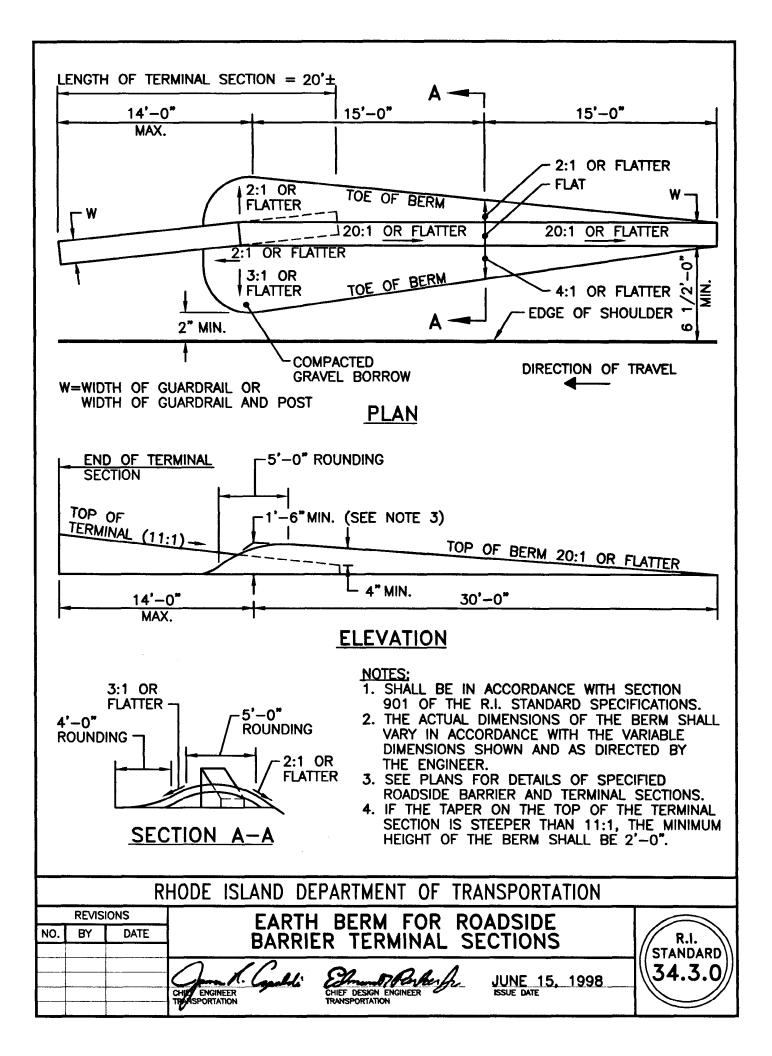
- 1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS. 2. ALL HOLES TO BE 13/16" .
- 3. ONLY ONE TYPE OF POST SHALL BE USED IN A SINGLE RUN. OPEN SIDE SHALL FACE AWAY FROM DIRECTION OF ONCOMING TRAFFIC.

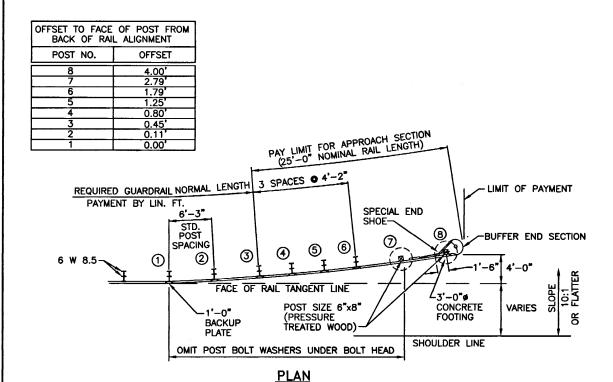
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	STEEL BEAM GUARDRAIL POST	
NO.	BY	DATE	AND OFFSET BRACKET "C" SECTION	R.I.
			0 10	((STANDARD))
			CHIEF DESIGN ENGINEER UNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE	J∖∖34.2.4 <i>//</i>
			CHIP ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

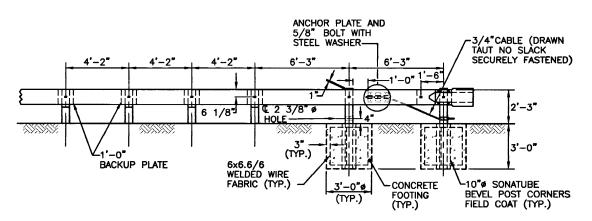


- 1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. REFLECTIVE MATERIAL SHALL BE OF ENCAPSULATED LENS SILVER OR AMBER.
- 3. SILVER REFLECTORS SHALL BE INSTALLED ON THE RIGHT SIDE OF THE ROAD AND AMBER ON THE LEFT, IN ACCORDANCE WITH MUTCD GUIDELINES FOR PAVEMENT EDGELINE MARKINGS.
- 4. THE REFLECTORIZED ALUMINUM WASHER IS TO BE PLACED IN VALLEY OF BEAM WHEN MOUNTING BEAM ONTO EACH SIXTH POST.
- 5. REFLECTORIZED GALVANIZED WASHERS MAY BE USED AS AN OPTION.

			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	STEEL BEAM GUARDRAIL	
NO.	BY	DATE	REFLECTORIZED TRIANGULAR DELINEATOR	R.I.
				(STANDARD) 34.2.5
			CHIEF DESIGN ENGINEER TRANSPORTATION TRANSPORTATION ISSUE DATE	







ANCHORAGE DETAIL

- 1. SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THIS STANDARD IS NOT TO BE USED WHEN THE DESIGN SPEED IS EXCEEDS 45 MPH.
 3. ALL METAL BEAM RAIL, POST, OFFSET BRACKETS, NUTS, BOLTS, WASHERS, AND ALL OTHER ACCESSORIES SHALL BE HOT DIPPED GALVANIZED.

- DIPPED GALVANIZED.

 4. ALL DIMENSIONS SUBJECT TO MANUFACTURERS' TOLERANCES.

 5. AFTER GALVANIZING, THE NUT SHALL BE FREE RUNNING ON THE BOLT.

 6. THE RAIL ELEMENT SHALL BE SHOP CURVED WHEN THE PLACEMENT OF GUARDRAIL IS ON A CURVE HAVING A RADIUS OF 150'-0" OR LESS. NO ADDITIONAL PAYMENT SHALL BE ALLOWED FOR THIS WORK.

 7. POST AND OFFSET BRACKET TO BE FABRICATED FROM 6"X4" 8 1/2 LBS. STEEL "H" SECTIONS.

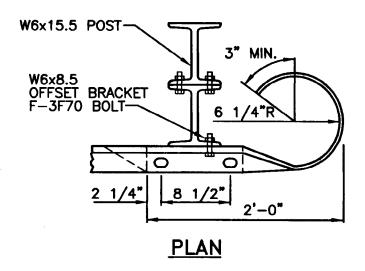
 8. POST AND BRACKET BOLT HOLES TO BE OVAL UNLESS OTHERWISE SPECIFIED.
- 9. ALL HOLES SHALL BE 13/16"
- 9. ALL HOLES SHALL BE 13/10.

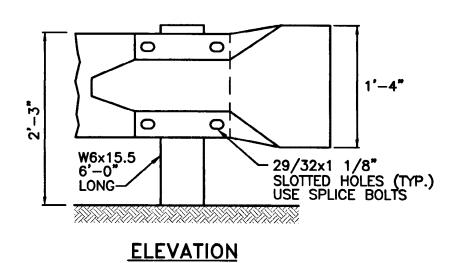
 10. FOR DETAILS ON CABLE, ANCHOR PLATE, END POST, BUFFER END SECTION, AND BACKUP PLATE SEE STD. 34.3.3.

 11. TO FACILITATE REMOVAL OF BROKEN WOOD POST, 10" (ONLY) PERMANENT CARDBOARD SONATUBES OR METAL SLEEVES ARE TO BE INSTALLED AROUND THE POST PRIOR TO CASTING THE FOOTINGS. (SLEEVE TO BE FILLED WITH CONCRETE SAND.) CORNERS OF POST TO BE BEVELED TO FIT 10" SONATUBE. FIELD TREAT THE BEVELS WITH CHROMATED COPPER.

 12. FOR TRAILING END OF GUARDRAIL ADJACENT TO ONE—WAY ROADWAY OMIT TERMINAL SECTION. NEXT TO LAST POST TO BE
- A LINE POST
- 13. USE NO WASHERS UNDER POST BOLT HEADS FROM FIRST THRU SEVENTH POSTS.

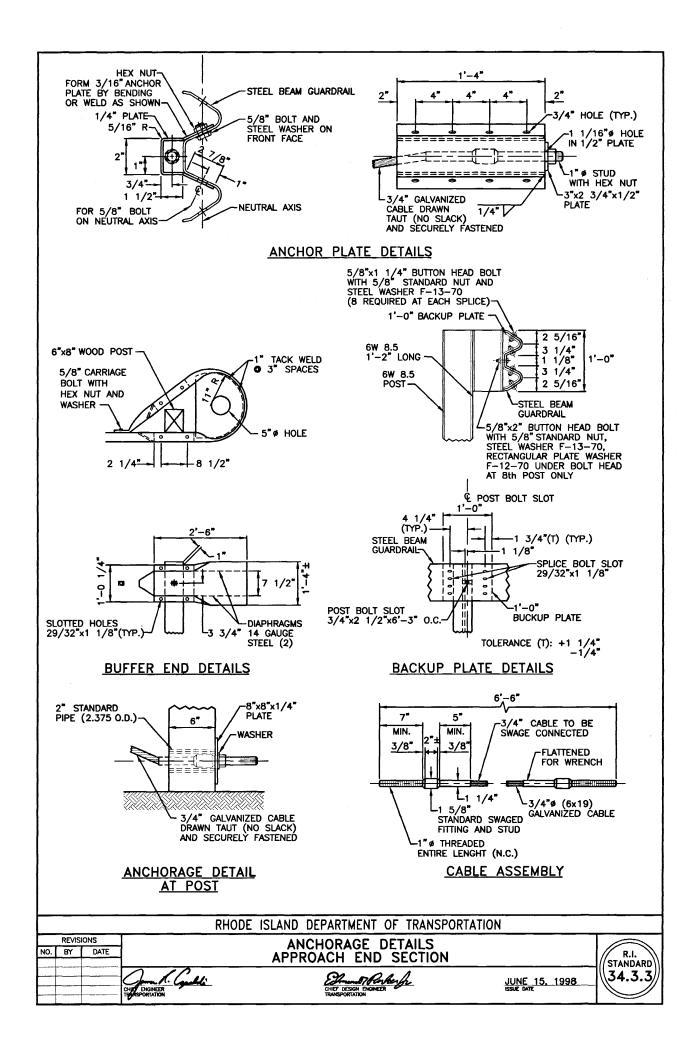
			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVIS	ONS DATE	GUARDRAIL END SECTION	R.I. STANDARD
			CHIEF DESIGN ENGINEER THANSPORTATION JUNE 15, 1998 ISSUE DATE	\\ ZA Z 1/

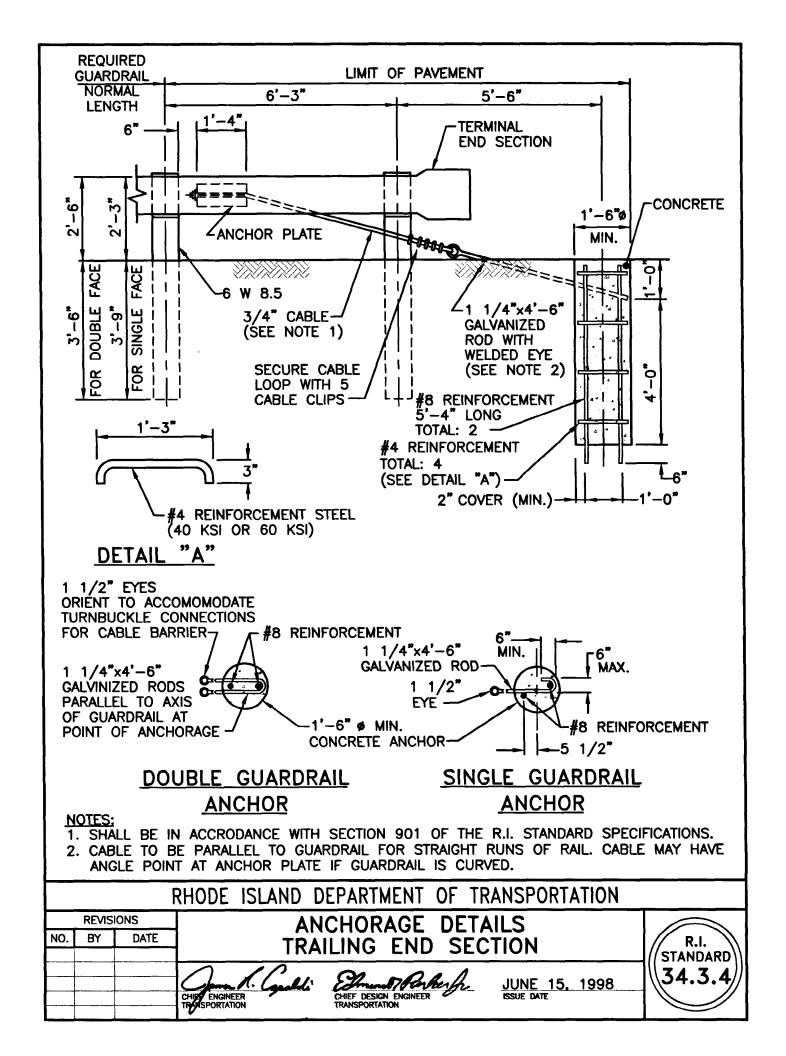


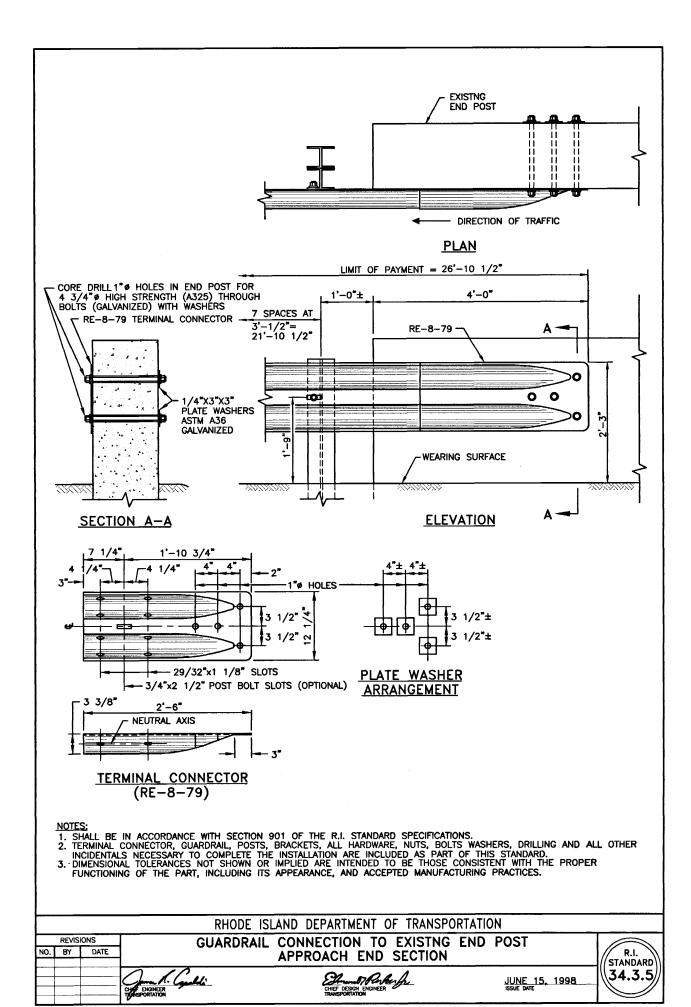


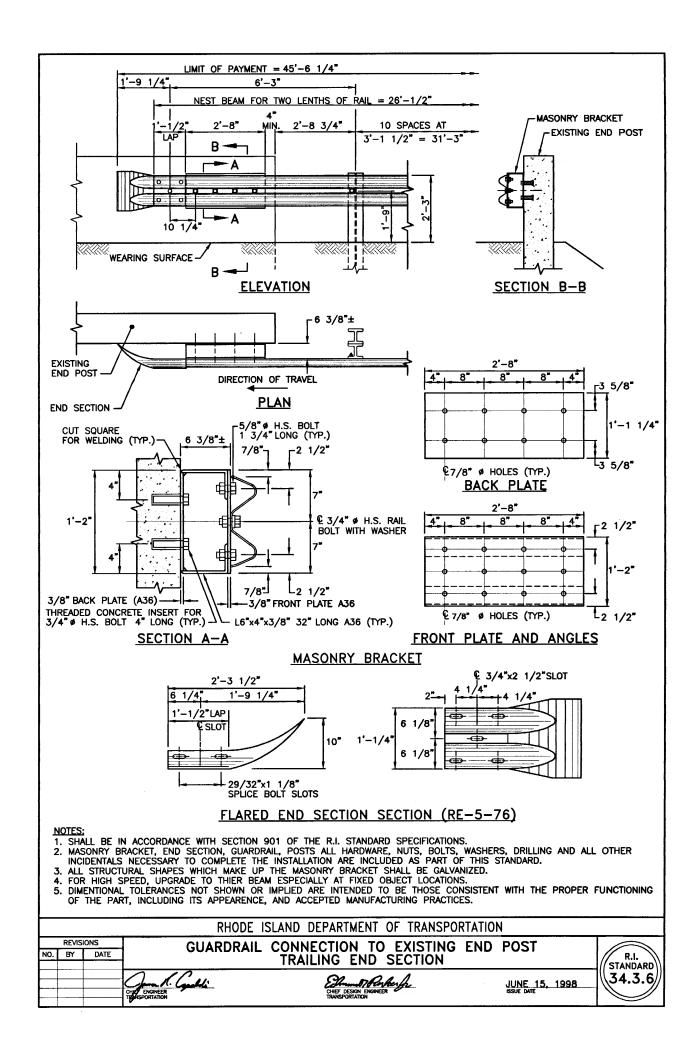
NOTE: SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.

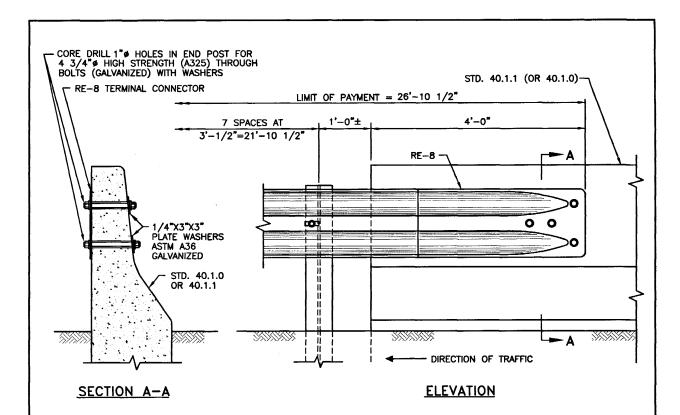
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	TERMINAL FUR SECTION	
NO.	BY	DATE	TERMINAL END SECTION (SINGLE FACE)	R.I.
			(SINGLE PACE)	STANDARD
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	34.3.2
			CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	

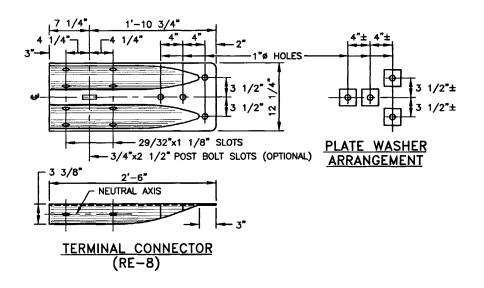






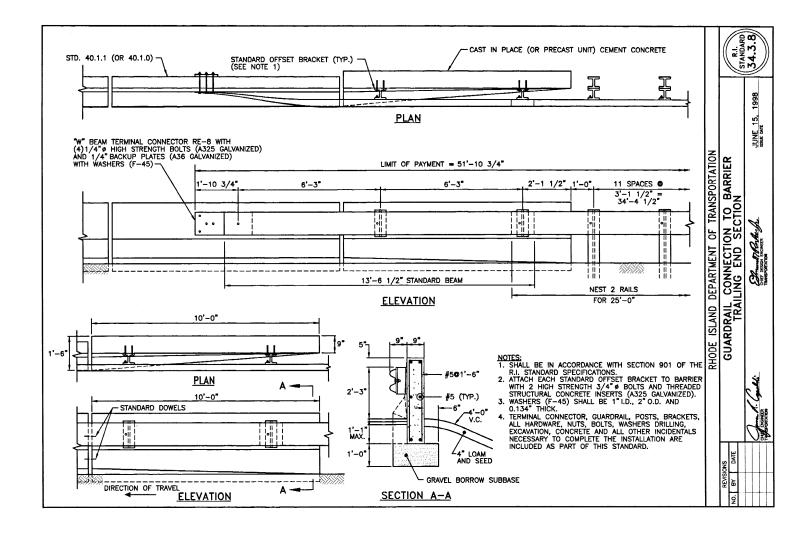


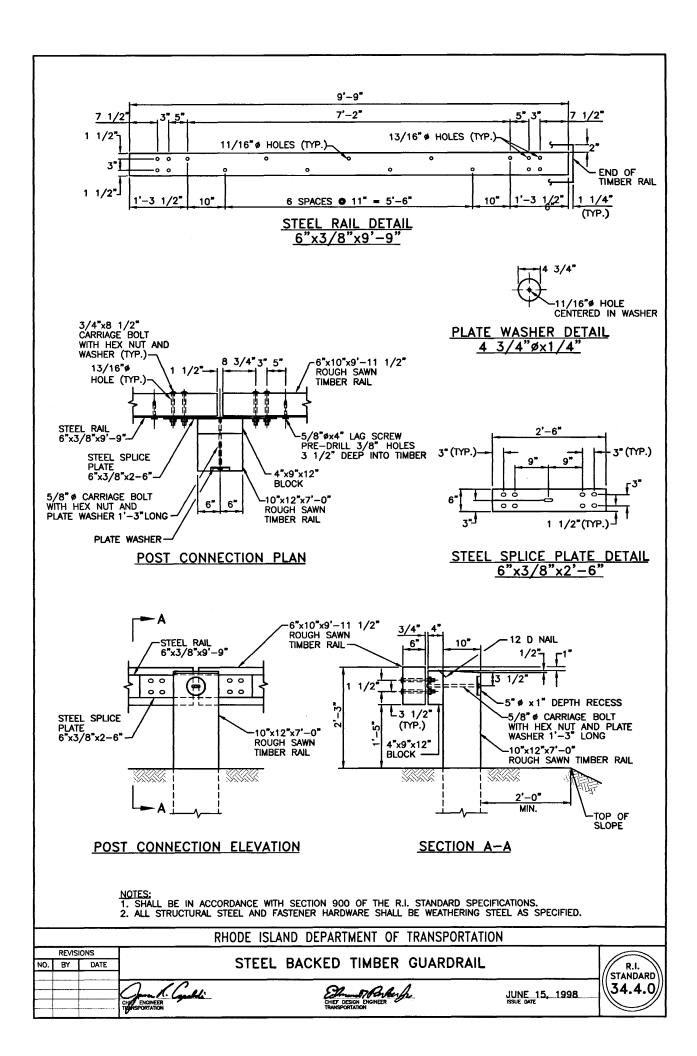


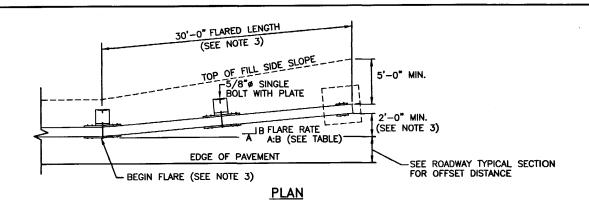


- SHALL BE IN ACCORDANCE WITH SECTION 901 OF THE R.I. STANDARD SPECIFICATIONS.
 TERMINAL CONNECTOR, GUARDRAIL, POSTS, BRACKETS, ALL HARDWARE, HUTS, BOLTS, WASHERS, DRILLING AND ALL OTHER INCIDENTALS NECESSARY TO COMPLETE THE INSTALLATION ARE INCLUDED AS PART OF THIS STANDARD.
 DIMENSIONAL TOLERANCES NOT SHOWN OR IMPLIED ARE INTENDED TO BE THOSE CONSISTENT WITH THE PROPER FUNCTIONING OF THE PART, INCLUDING ITS APPEARANCE, AND ACCEPTED MANUFACTURING PRACTICES.

	RHODE ISLAND DEPARTMENT OF TRANSPORTATION	TION	_
REVISIONS NO. BY DATE	GUARDRAIL CONNECTION TO BARRIE APPROACH END SECTION		R.I.
	CHIEF DESIGN ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 SSUE DATE	.3.7

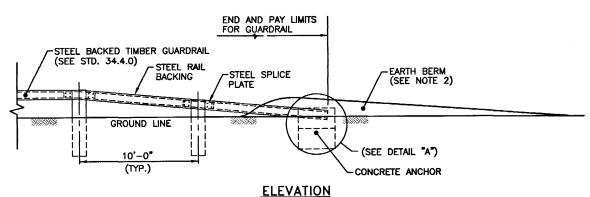


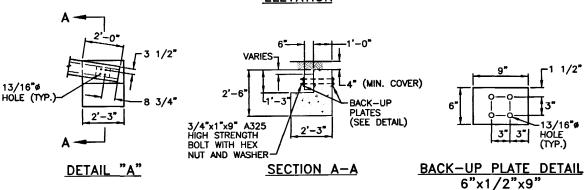




DESIGN SPEED (MPH)	FLARE RATE A:B
60	13:1
50	11:1
40	9:1
30 OR LESS	7:1

GUARDRAIL FLARE RATES





- NOTES;

 1. SHALL BE IN ACCORDANCE WITH SECTION 900 OF THE R.I. STANDARD SPECIFICATIONS.

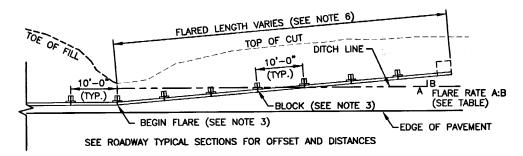
 2. REFERENCE STD. 34.3.0 FOR CONSTRUCTION OF EARTH BERM.

 3. THE GUARDRAIL FLARE SHOWN IN THE PLAN VIEW IS THE MINIMUM LENGTH AND RATE REQUIRED. AS DIRECTED BY THE ENGINEER, THE GUARDRAIL SHOULD BE FLARED SO THE TERMINAL SECTION IS OUTSIDE THE CLEAR ZONE. WHEN THIS IS NOT PRACTICAL, IT SHOULD BE FLARED AS FAR FROM THE ROAD AS PRACTICAL AT THE MAXIMUM RATE INDICATED ON THE GUARDRAIL FLARE RATE TABLE.

 4. REFERENCE STD. 34.4.0 FOR TIMBER, STRUCTURAL STEEL AND HARDWARE DETAILS.

 5. THE BLOCKS SHALL BE INCLUDED IN THE TERMINAL SECTION, EXCEPT ON THE CONCRETE ANCHOR.

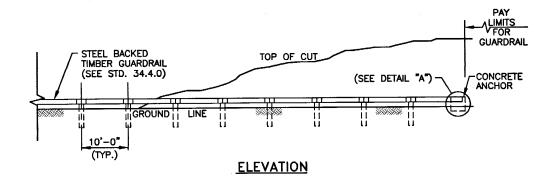
1	RHO	DE ISLAND DEPARTMENT OF	TRANSPORTATION	
REVISIONS NO. BY DATE		STEEL BACKED TIMBER TERMINAL SECTION -	GUARDRAIL - TYPE 1	R.I. STANDARD
	CHUZ ENGINEER THE ENGINEER	CHE DESIGN ENGINEER TRUMSPORTATION	JUNE 1	15, 1998

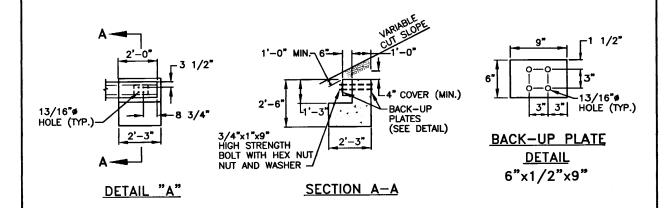


<u>PLAN</u>

DESIGN SPEED (MPH)	FLARE RATE A:B
40	9:1
300R LESS	7:1

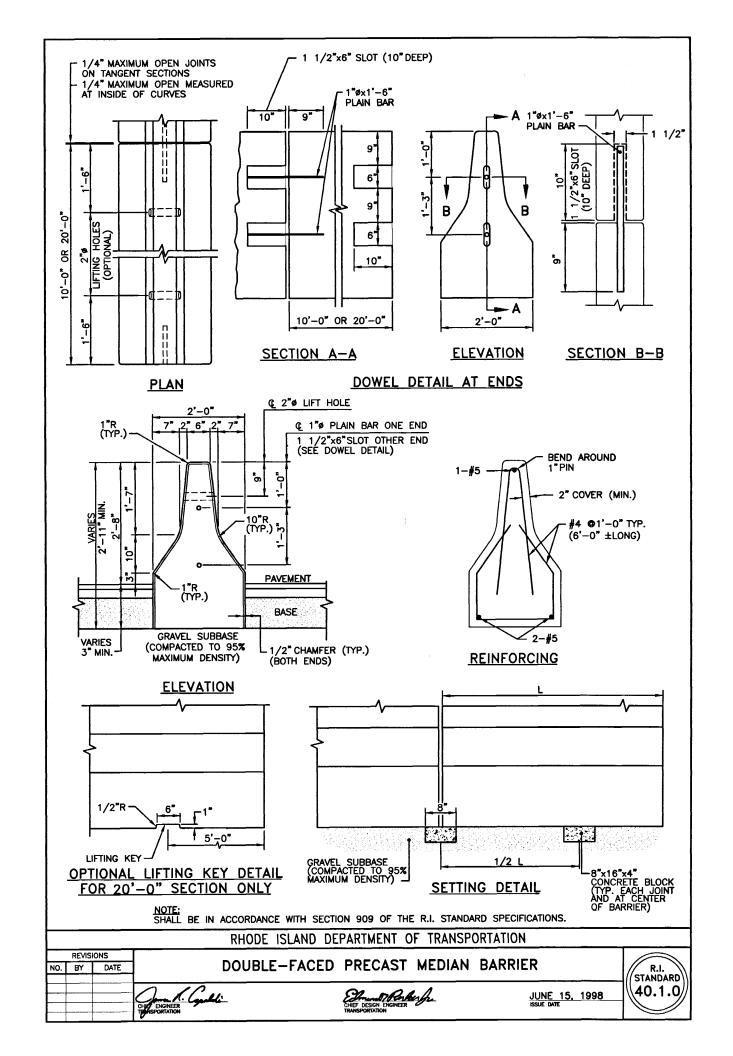
GUARDRAIL FLARE RATES

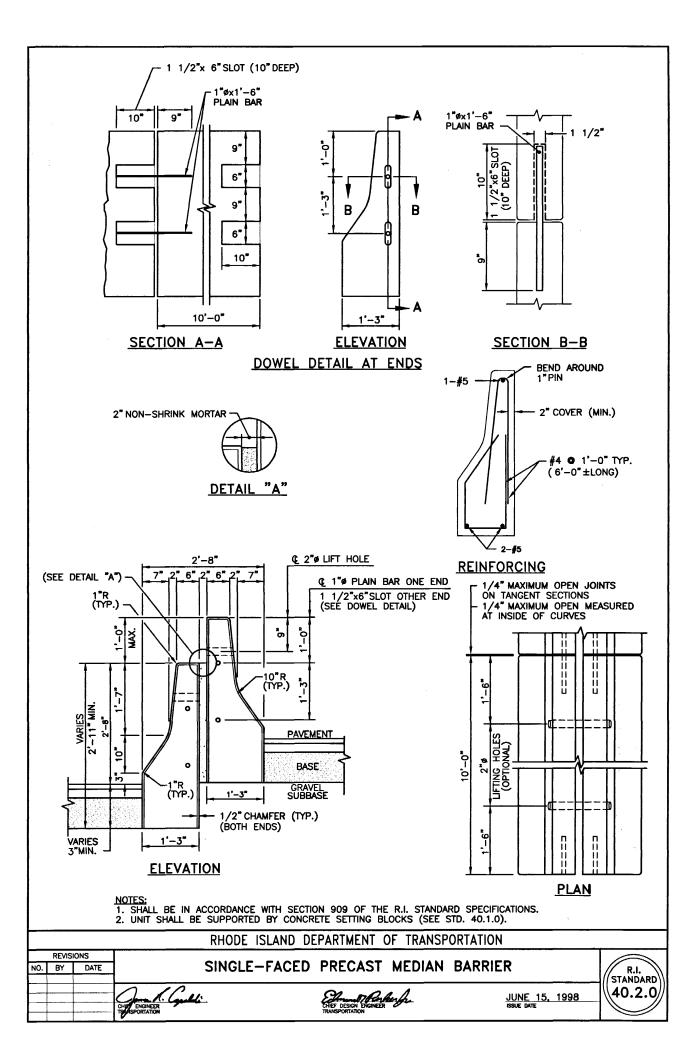


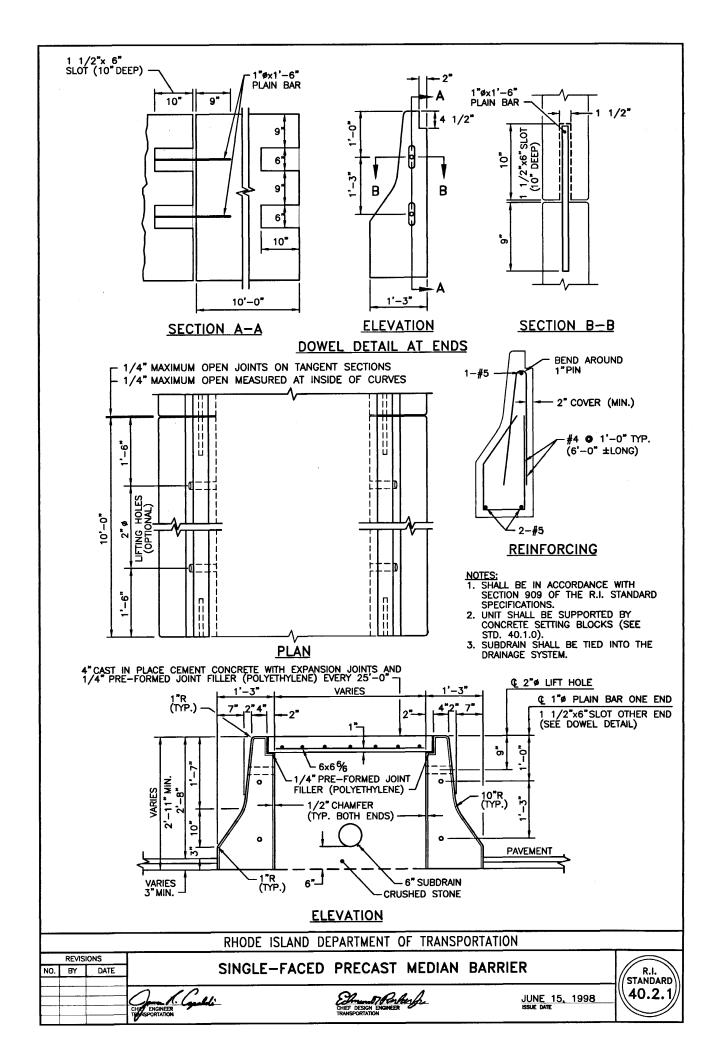


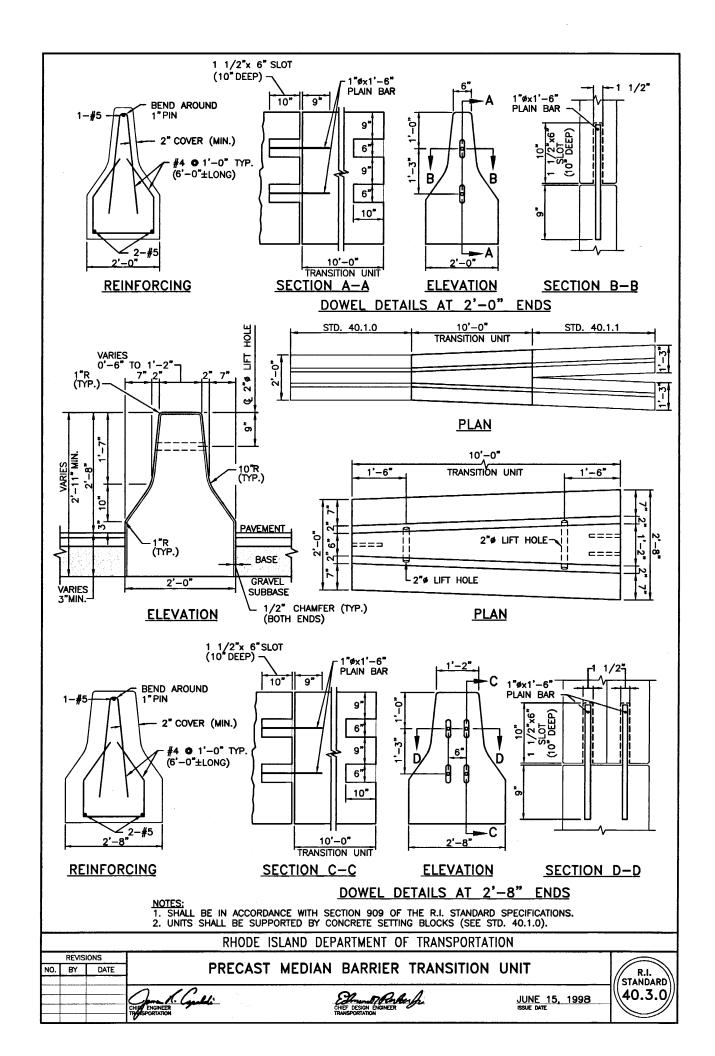
- 1. SHALL BE IN ACCORDANCE WITH SECTION 900 OF THE R.I. STANDARD SPECIFICATIONS.
 2. THIS STANDARD IS NOT TO BE USED WHEN THE DESIGN SPEED EXCEEDS 45 MPH.
 3. SEE STD. 34.4.0 STEEL BACKED TIMBER GUARDRAIL, FOR TIMBER, STRUCTURAL STEEL AND HARDWARE DETAILS.
 4. THE BLOCKS SHALL BE INCLUDED IN THE TERMINAL SECTION, EXCEPT ON THE CONCRETE ANCHOR.
 5. CUT FLARES SHALL BEGIN AT THE NEAREST POST TO A TRANSITION POINT BETWEEN FILL AND CUT AS DIRECTED BY THE ENGINEER
- 6. THE FLARE SHALL BE EXTENDED INTO THE CUT UNTIL A MIMIMUM OF 1'-0" COVER IS OBTAINED OVER THE GUARDRAIL END.

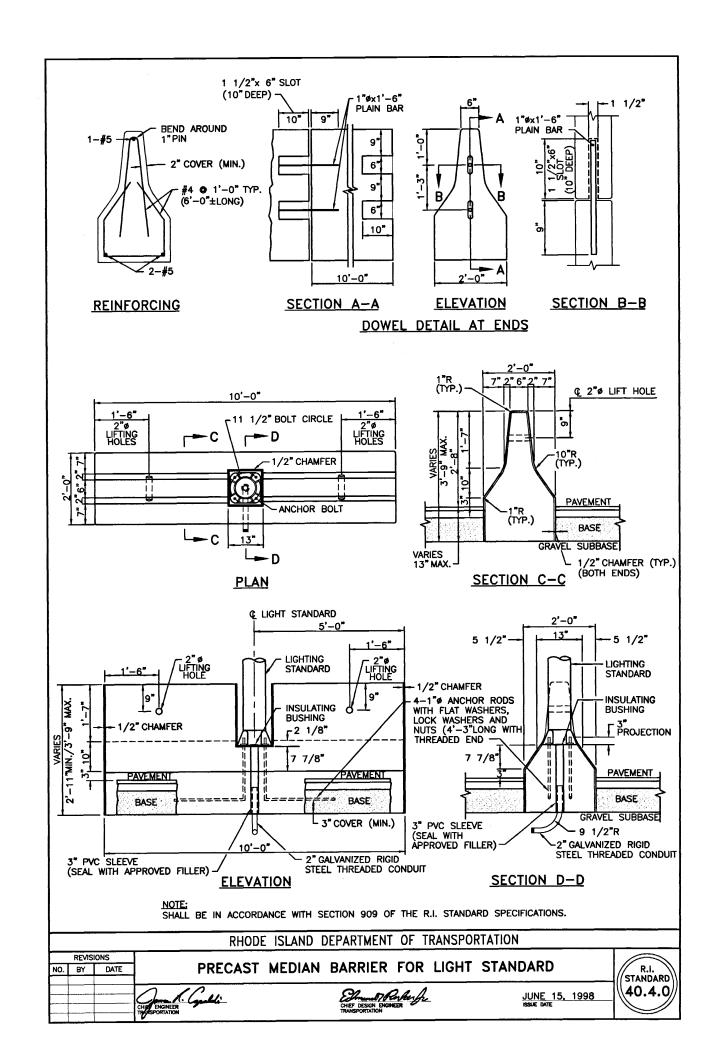
	RHODE ISLAND DEPARTMENT OF TRANSPORTATION)N	
REVISIONS NO. BY DATE	STEEL BACKED TIMBER GUARDRAIL TERMINAL SECTION — TYPE 2		R.I. STANDARD
	CHIP ENGINEER THANSPORTATION CHIP DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	34.4.2

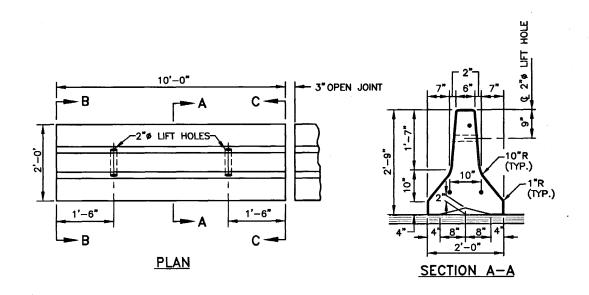


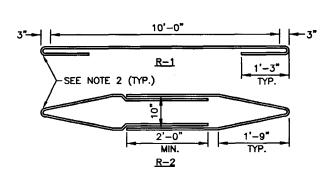


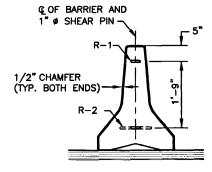






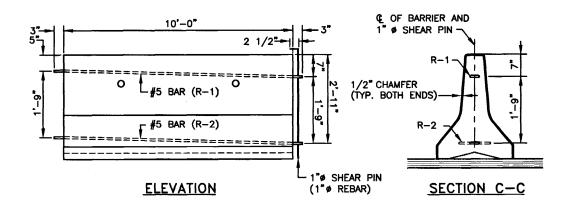






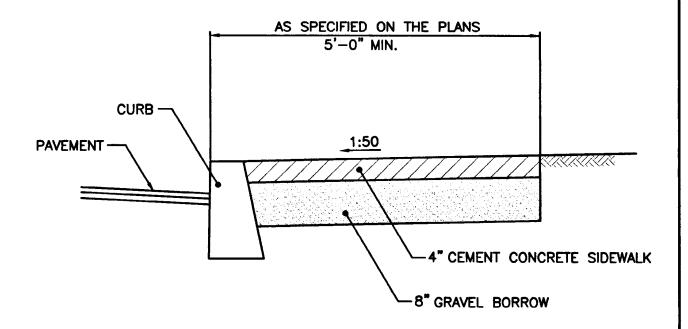
REINFORCING BAR DETAIL

SECTION B-B



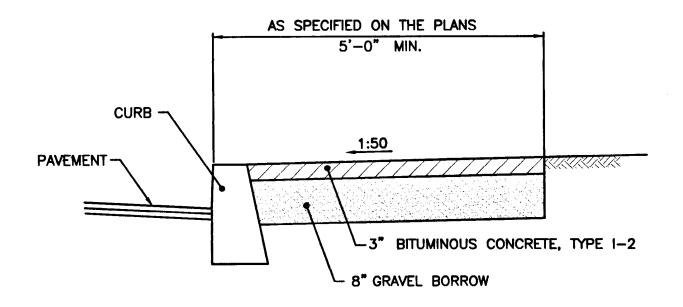
1. SHALL BE IN ACCORDANCE WITH SECTION 926 OF THE R.I. STANDARD SPECIFICATIONS.
2. BEND REBARS AROUND A 1 3/8" ø PIN.
3. BARS R-I SHALL BE FABRICATED CONTINUOUSLY. R-2 BARS SHALL BE FABRICATED WITH 2'-0" MINIMUM LAPS AS SHOWN ON THE DETAIL.

	RHODE	ISLAND DEPARTMENT OF TRANSPOR	RTATION	
REVISIONS NO. BY DATE	FO	PRECAST MEDIAN BARRIER R TEMPORARY TRAFFIC CONT	ROL	R.I. STANDARD
	CHIEF ENGINEER TRANSPORTATION	CHIPTOMOTO DESIGN ENGINEER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	40.5.0



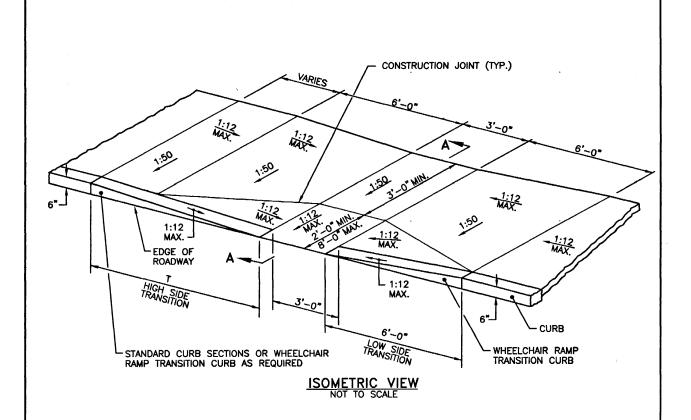
- 1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

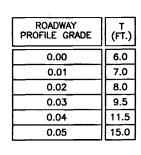
		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	ONS DATE	CEMENT CONCRETE SIDEWALK	R.I. STANDARD
			CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE	43.1.0

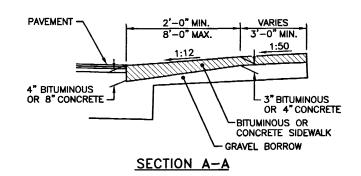


- 1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. FOR CURB SETTING DETAIL REFERENCE STD. 7.6.0.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	ONS DATE	BITUMINOUS CONCRETE SIDEWALK	R.I.
			CHIP ENGINEER CHIEF DESIGN ENGINEER SSUE DATE CHIEF DESIGN ENGINEER ISSUE DATE	43.2.0







- 1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
 2. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, THE WHEELCHAIR RAMP WILL BE PLACED SUCH THAT THE OBSTRUCTION FALLS OUTSIDE OF THE RAMP.
 3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE

- 3. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.

 4. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.

 5. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.

 6. IN NO INSTANCE SHALL THE SIDEWALK CROSS SLOPE EXCEED 1:50 EXCEPT WITHIN THE RAMP AREA.

 7. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.

 8. THE WHEELCHAIR RAMP SLOPE AND SIDE SLOPES (TRANSITIONS), MUST NOT EXCEED 1:12. HOWEVER, THESE SLOPES MAY BE FLATTER THAN 1:12 WHEN WARRANTED BY SURROUNDING CONDITIONS.

 9. WHERE THE ROAD PROFILE EXCEEDS 5% THE HIGH SIDE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").

 10. IN NO CASE, WHERE A STOP LINE IS WARRANTED, SHALL A RAMP BE PLACED BEHIND THE STOP LINE.

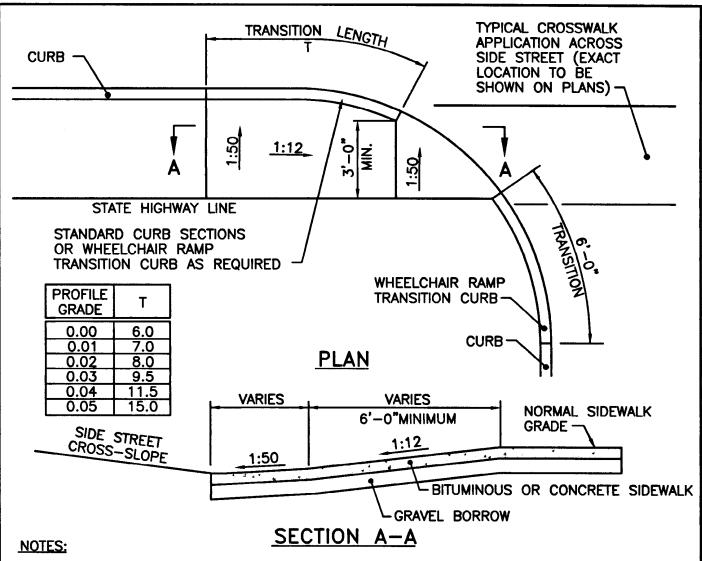
 11. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.

 12. THE WHEELCHAIR RAMP SHALL BE CENTERED RADIALLY, OPPOSITE THE RADIUS POINT WHEN POSSIBLE.

 13. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0" (GREATER LENGTHS PREFERRED).

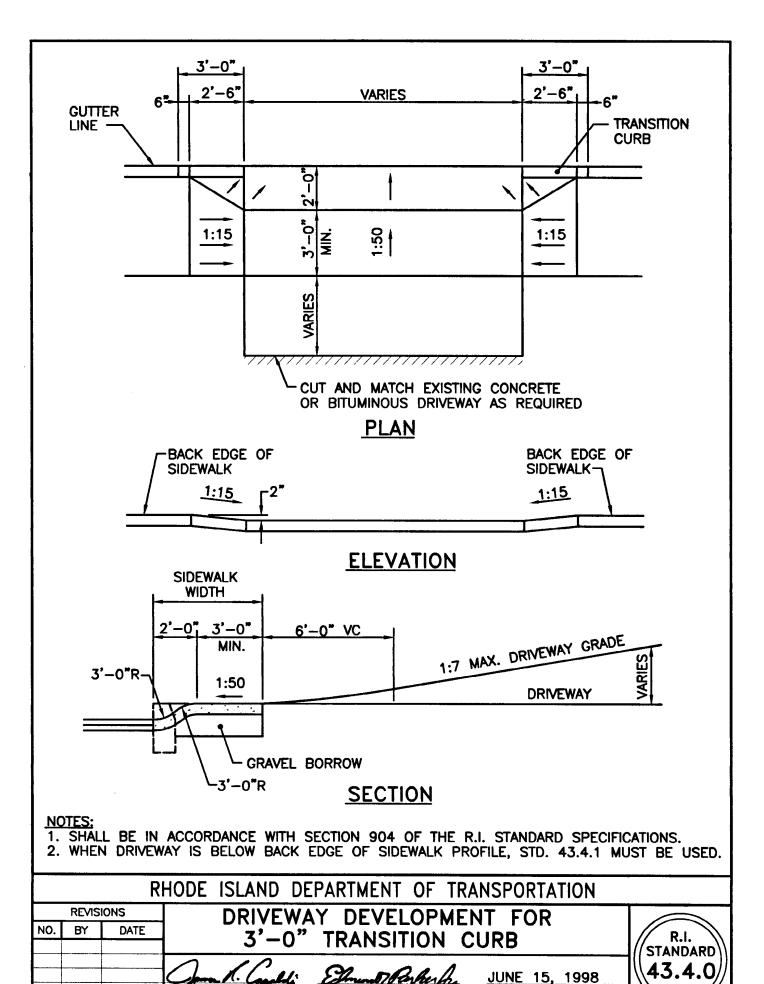
 14. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.

ı		RHODE ISLAND DEPARTMENT OF TRANSPORT	ATION
	REVISIONS NO. BY DATE	WHEELCHAIR RAMP	R.I. STANDARD
		CHAP ENGINEER CHAPTER STREET TRANSPORTATION TRANSPORTATION	JUNE 15, 1998 43.3.0

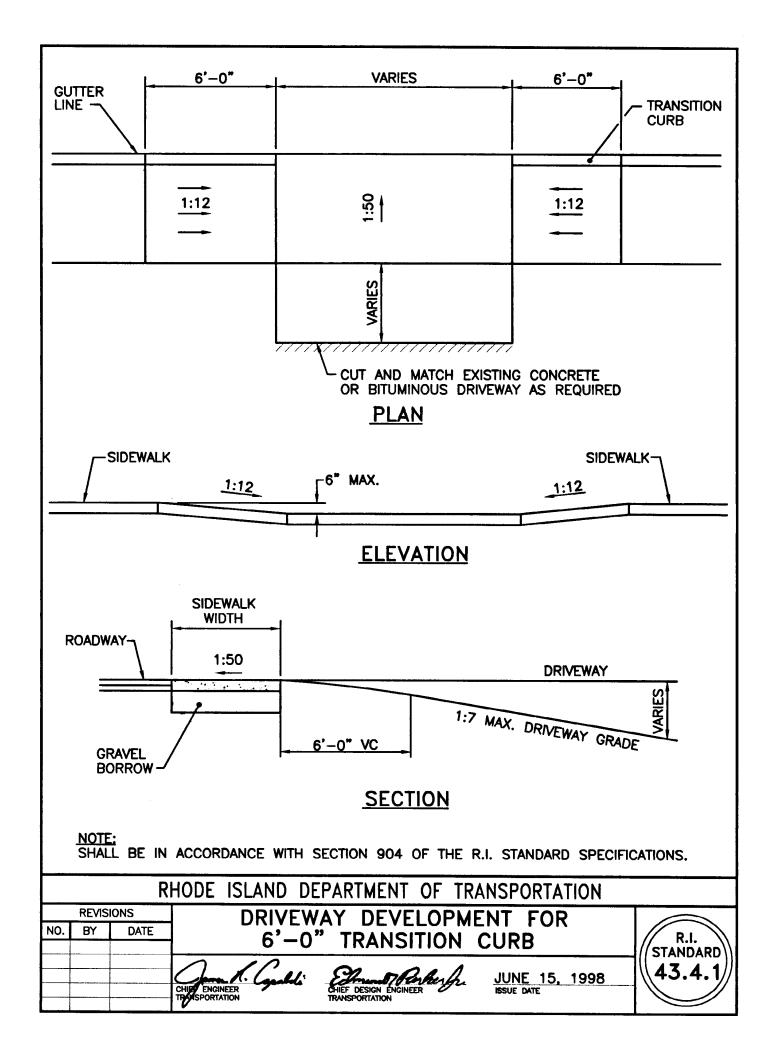


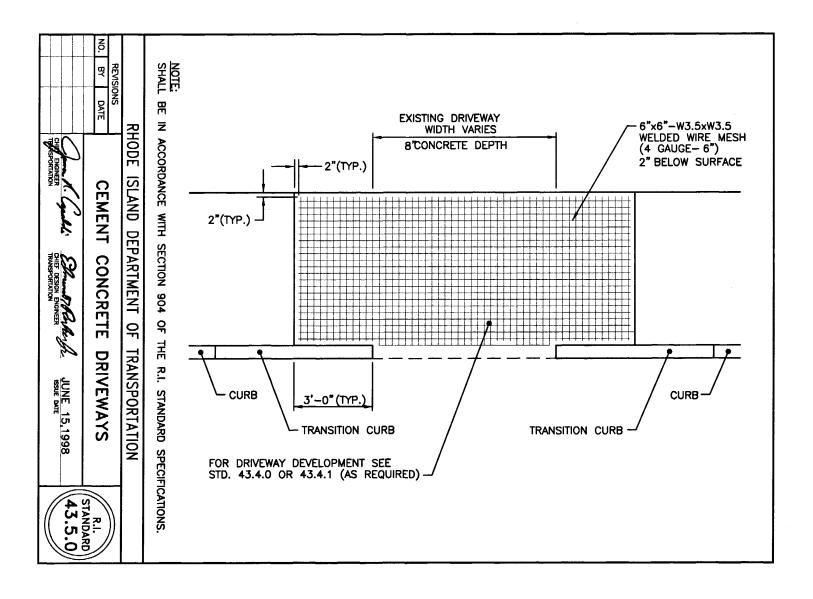
- 1. SHALL BE IN ACCORDANCE WITH SECTION 904 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. THIS DETAIL IS TO BE USED ONLY WHEN STATE RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK, AND SIDEWALK IS NARROW WITH NO PEDESTRIAN TRAFFIC FROM SIDE STREET.
- 3. WHEN ANY OBSTRUCTION LOCATED IN THE SIDEWALK FALLS WITHIN A CROSSWALK AREA, IF POSSIBLE, THE OBSTRUCTION WILL BE PLACED SUCH THAT IT FALLS OUTSIDE OF THE RAMP.
- 4. AT NO TIME IS ANY PART OF THE WHEELCHAIR RAMP TO BE LOCATED OUTSIDE OF THE CROSSWALK, AND IT IS TO BE CENTERED WHENEVER POSSIBLE.
- 5. DRAINAGE FACILITIES ARE TO BE LOCATED UP-GRADE OF ALL WHEELCHAIR RAMPS.
- 6. LOCATION OF WHEELCHAIR RAMPS IS AS SHOWN ON CONTRACT DRAWINGS.
- 7. ALL REQUIRED CUTTING OF CURB PIECES TO BE PAID FOR UNDER COST OF CURB.
- 8. WHERE THE ROAD PROFILE EXCEEDS 5% THE TRANSITION LENGTH (T) SHALL BE EIGHTEEN FEET (18'-0").
 9. THE ENTRANCE OF THE WHEELCHAIR RAMP SHALL BE FLUSH WITH THE ROADWAY.
- 10. MINIMUM LENGTH OF STRAIGHT OR CIRCULAR FILLER PIECES TO BE 3'-0"(GREATER LENGTHS PREFERRED).
- 11. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 3'-0" SHALL BE MAINTAINED.

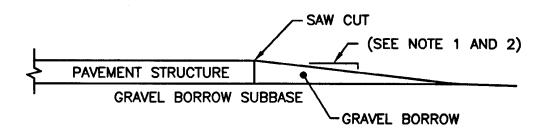
		R	HODE ISLA	ND DEPARTMENT OF TRAI	NSPORTATION	
NO.	REVISI BY	DATE	FOR I	WHEELCHAIR RAI LIMITED RIGHT-OF-W		R.I. STANDARD
			CHIE ENGINEER THANSPORTATION	GHLL' SHAMP PORKER TRANSPORTATION	JUNE 15, 1998 ISSUE DATE	43.3.1



ISSUE DATE







1. TRANSVERSE DROP-OFF:

POSTED SPEED

■ 35 M.P.H.: 5 FEET HORIZONTALLY TO 1 INCH VERTICALLY POSTED SPEED > 35 M.P.H.: 10 FEET HORIZONTALLY TO 1 INCH VERTICALLY

2. LONGITUDINAL DROP-OFF (OUTSIDE EDGES OF PAVEMENT):

POSTED SPEED 4 35 M.P.H.: DROP-OFFS > 3" BUT < 5" SHALL BE TAPERED TO A 1:1

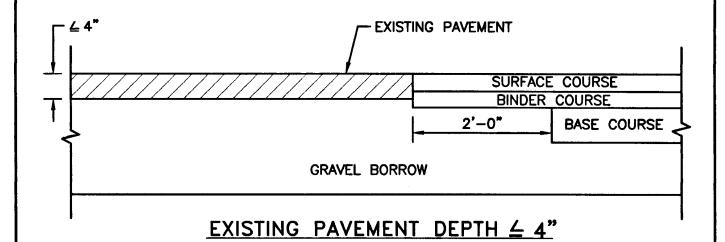
OR FLATTER SLOPE TO EXISTING GROUND.

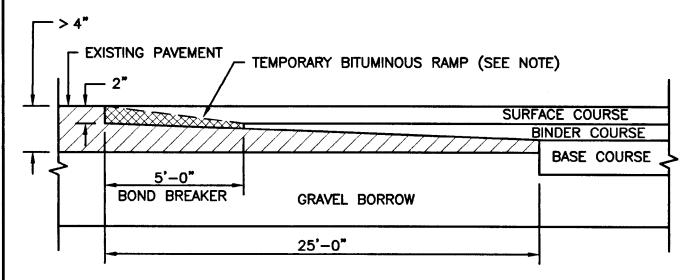
ALL DROP-OFFS 4 5" SHALL BE TAPERED TO A 4:1 OR

FLATTER SLOPE TO EXISTING GROUND.

POSTED SPEED > 35 M.P.H.: LONGITUDINAL DROP-OFFS WILL NOT BE PERMITTED WITHIN 2'-0" OF A TRAVEL LANE. THIS AREA MUST BE AT GRADE WITH THE TRAVEL LANE, HOWEVER, SHOULD THE CONTRACTOR'S APPROVED SEQUENCE OF OPERATIONS RESULT IN OVERNIGHT DROP-OFFS GREATER THAN THREE INCHES OCURRING BETWEEN 2'-0" TO 6'-0" FROM A TRAVEL LANE, THEN THE DROP-OFFS SHALL BE TAPERED TO A 4:1 OR FLATTER SLOPE TO EXISTING GROUND.

		[RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	IONS	PAVEMENT REMOVAL	
NO.	BY	DATE	DROP-OFF DETAIL	R.I.
			DROP-OFF DETAIL	_//STANDARD\\
			CHIEF ENGINEER TRANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE	47.1.0



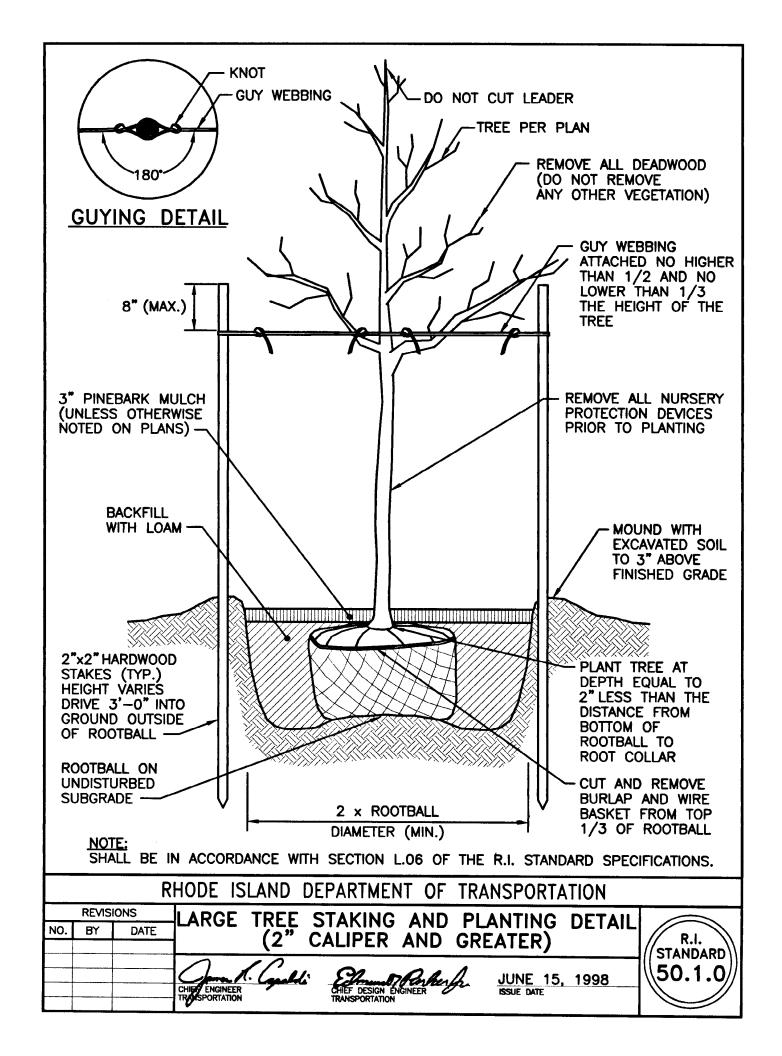


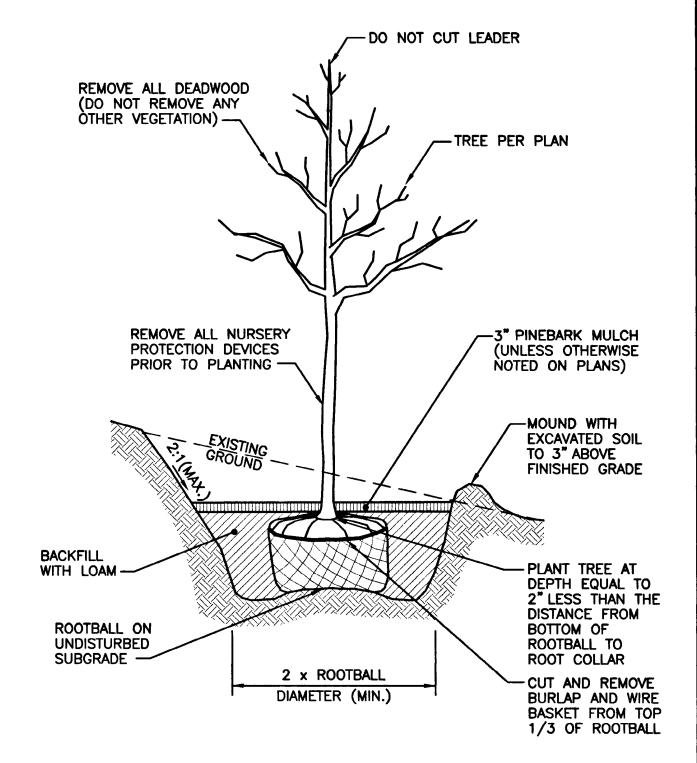
EXISTING PAVEMENT DEPTH > 4"

NOTE:

A BOND BREAKER (TAPERED OR EQUIVALENT) WILL BE PLACED 5'-0" FROM THE JOINT AND COVERED WITH THE BINDER COURSE AS THE TEMPORARY RAMP. PRIOR TO PLACING THE SURFACE COURSE, THE BINDER COURSE AND BOND BREAKER WILL BE REMOVED.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
R	REVISIO	NS	TRANSVERSE PAVEMENT	
NO. E	BY	DATE	CUT AND MATCH	R.I.
			0 10	(STANDARD)
			CHIEF DESIGN ENGINEER TENSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION TRANSPORTATION JUNE 15, 1998 ISSUE DATE	1





NO.

1. SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

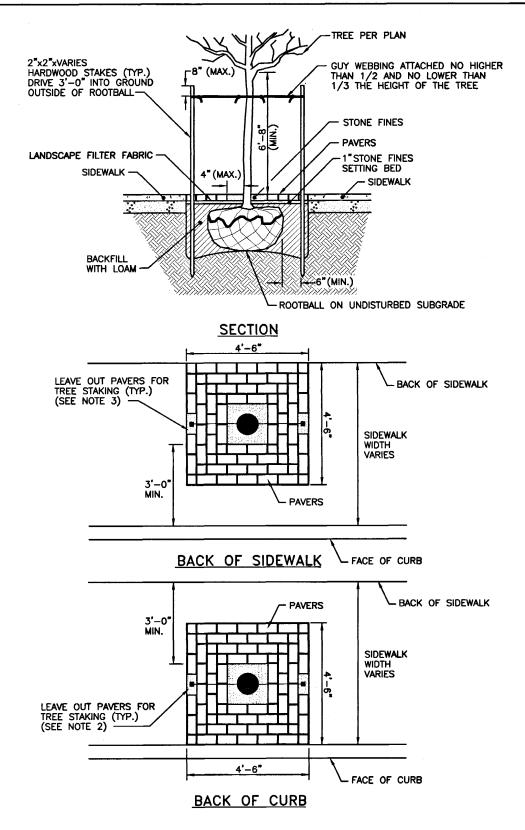
2. FOR STAKING DETAIL SEE STD. 50.1.0

F	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISIONS		
BY DATE	TREE PLANTING ON SLOPE	
		//STA

CHIEF DESIGN ENGINEER TRANSPORTATION

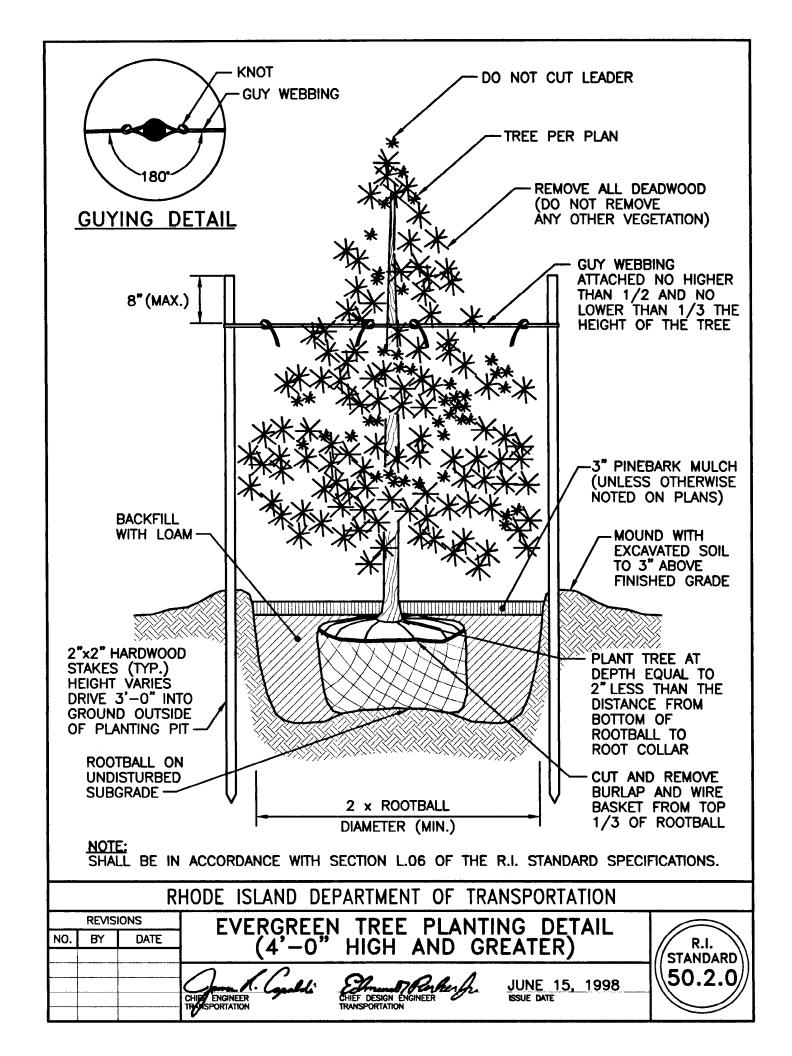
JUNE 15, 1998

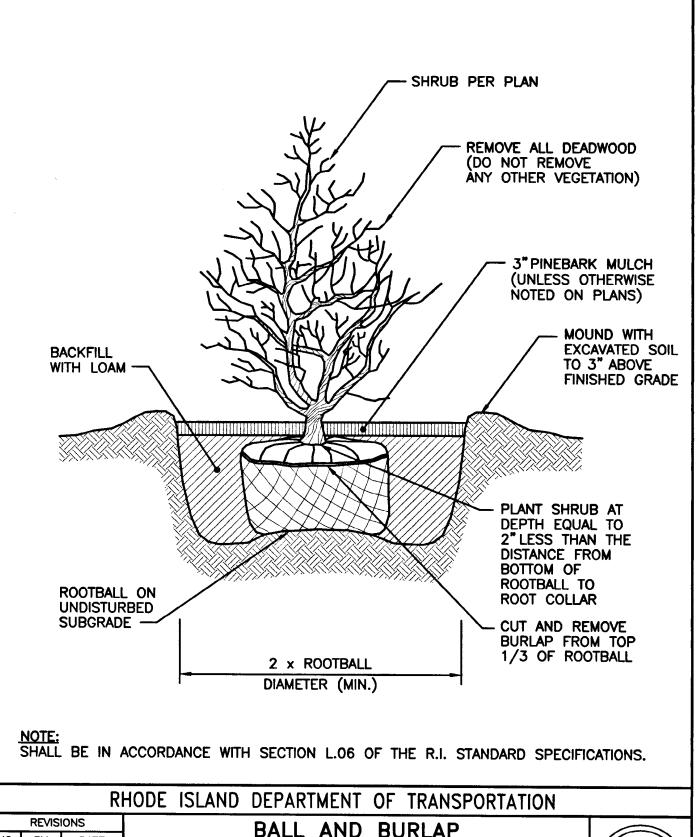
R.I. ANDARD 50.1



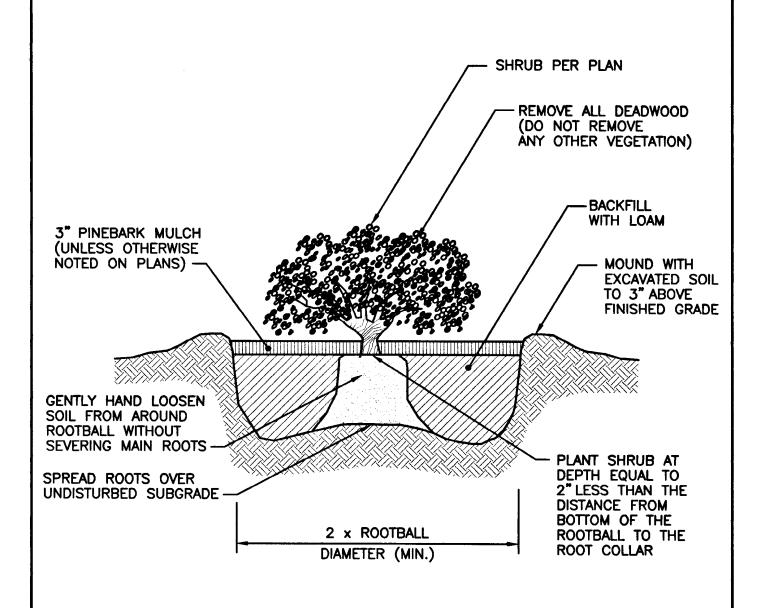
- NOTES:
 1. SHALL BE IN ACCORDANCE WITH SECTIONS L.06 AND L.12 OF THE R.I. STANDARD SPECIFICATIONS.
 2. STAKES SHOULD BE LOCATED PARALLEL TO ROAD AND SIDEWALK.
 3. AFTER THE GUARANTEE PERIOD THE CONTRACTOR WILL BE RESPONSIBLE FOR REMOVAL OF STAKES AND GUY WEBBING, AND FOR THE INSTALLATION OF PAVERS PREVIOUSLY LEFT OUT FOR STAKING.

RHODE ISLAND DEPARTMENT OF TRANSPORTATION REVISIONS PAVER DETAIL AROUND NEW TREES NO. BY DATE R.I. STANDARD JUNE 15, 1998 50.1.2



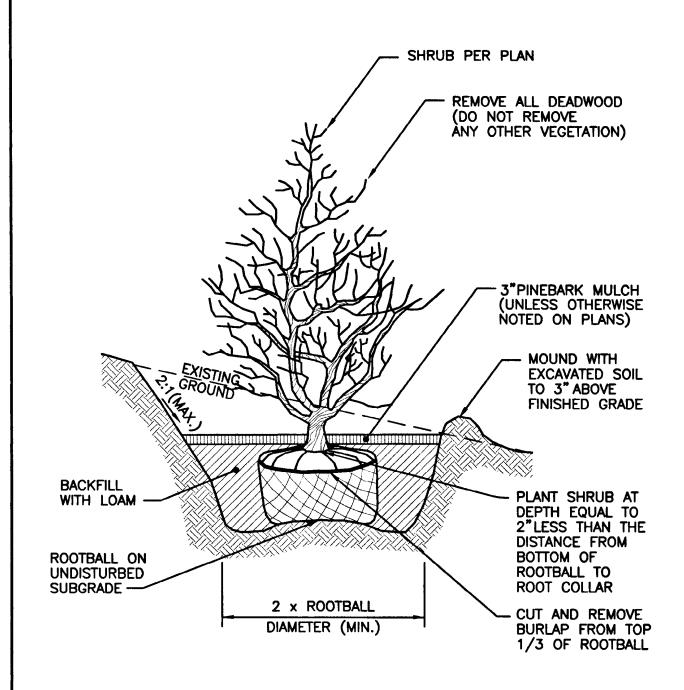


	REVISI	ONS	BALL AND BURLAP	
NO.	BY	DATE	SHRUB PLANTING DETAIL	R.I.
			CHIEF ENGINEER THAT PORTATION CHIEF DESIGN ENGINEER TRANSPORTATION JUNE 15, 1998 ISSUE DATE	50.3.0



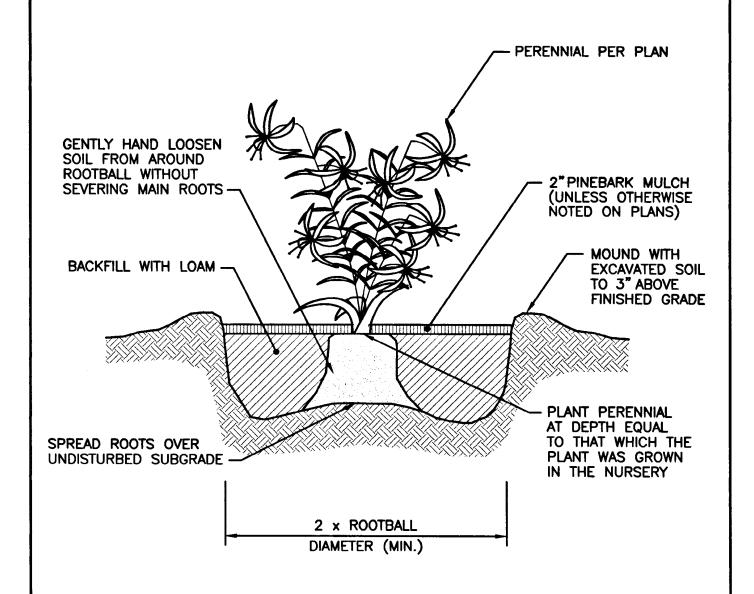
NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	ONS	CONTAINER GROWN	
NO.	BY	DATE		R.I.
			SHRUB PLANTING DETAIL	//STANDARD
			June 15, 1998	(50.3.1//
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



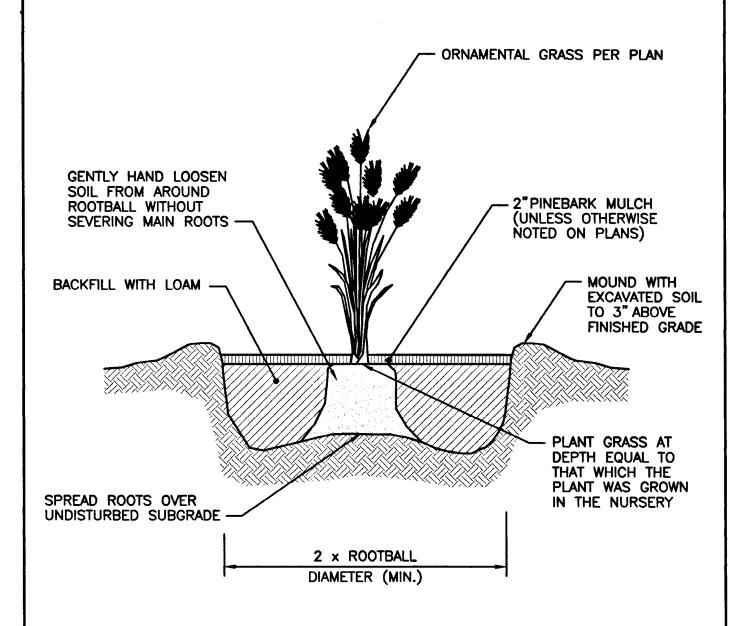
NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
1	REVIS	ONS		
NO.	BY	DATE	SHRUB PLANTING ON SLOPE	R.I.
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	(STANDARD) 50.3.2
			CHIEF DESIGN ENGINEER ISSUE DATE THE ASPORTATION TRANSPORTATION	



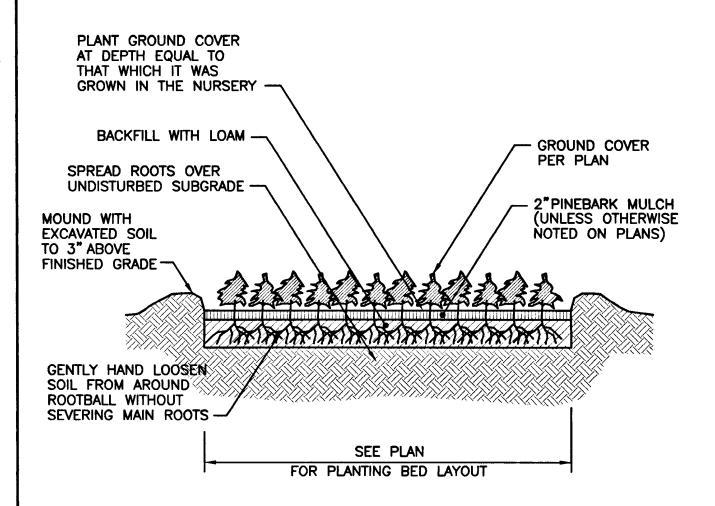
NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS	ONS		
NO.	BY	DATE	PERENNIAL PLANTING DETAIL	R.I.
			June 15, 1998	(STANDARD) 50.4.0
			CHIEF DESIGN ENGINEER THANSPORTATION CHIEF DESIGN ENGINEER TRANSPORTATION ISSUE DATE	



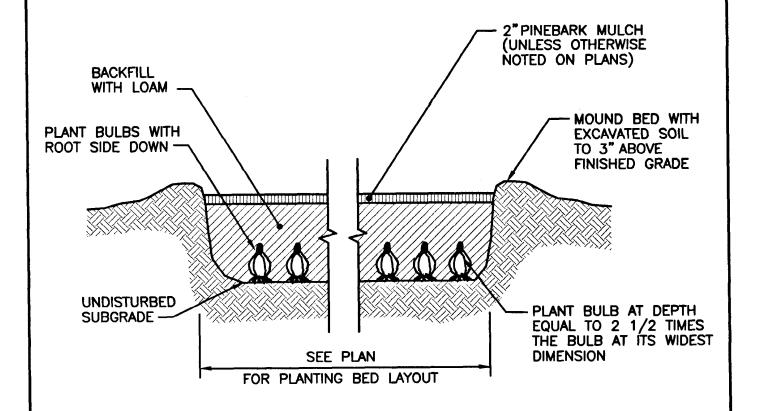
NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

	R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVIS		OPNIAMENTAL CRASS DIANTING DETAIL	
NO. BY	DATE	ORNAMENTAL GRASS PLANTING DETAIL	R.I.
		CHIEF DESIGN ENGINEER JUNE 15, 1998 CHIEF DESIGN ENGINEER ISSUE DATE	50.5.0
		CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	



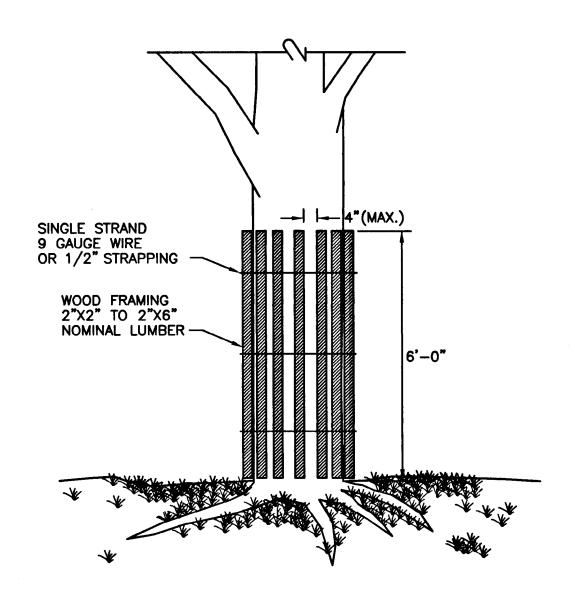
NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVISI	ONS		
NO.	BY	DATE	GROUNDCOVER PLANTING DETAIL	R.I.
			0 10 0 1	(STANDARD)
			CHIEF ENGINEER CHIEF DESIGN ENGINEER JUNE 15, 1998 SSUE DATE	
			TRANSPORTATION TRANSPORTATION	



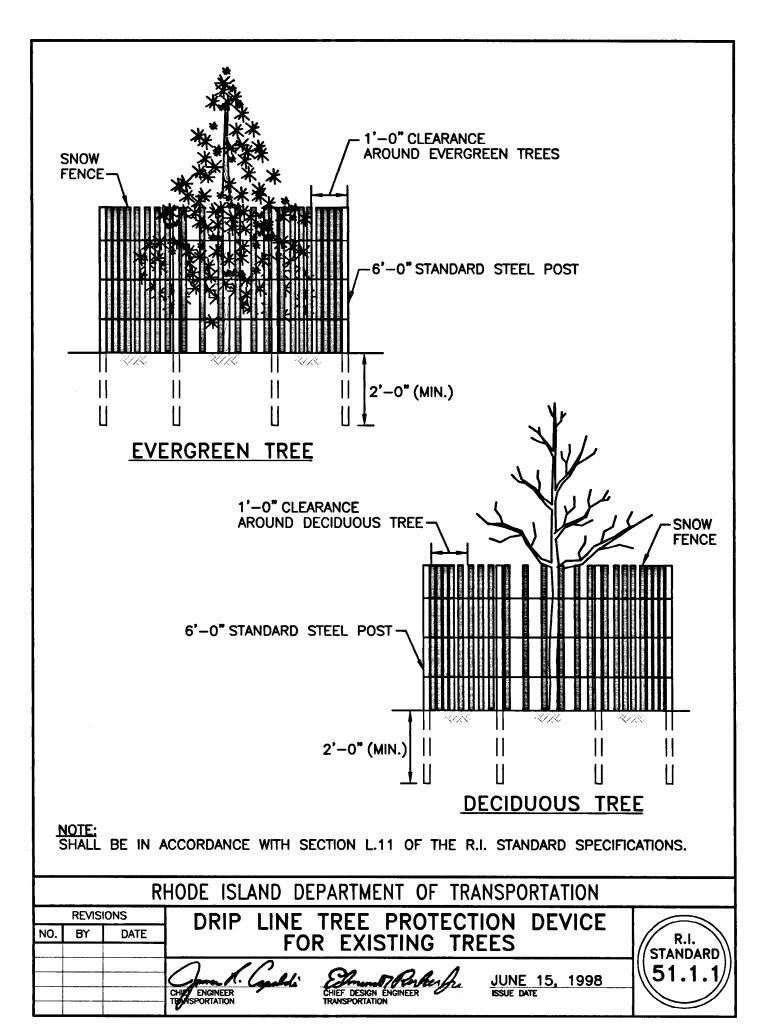
- 1. SHALL BE IN ACCORDANCE WITH SECTION L.06 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. BY HAND, SPREAD BONE MEAL OVER ENTIRE PLANTING BED AT A RATE NOT TO EXCEED 1/2 LB. PER 25 SQ. FT.

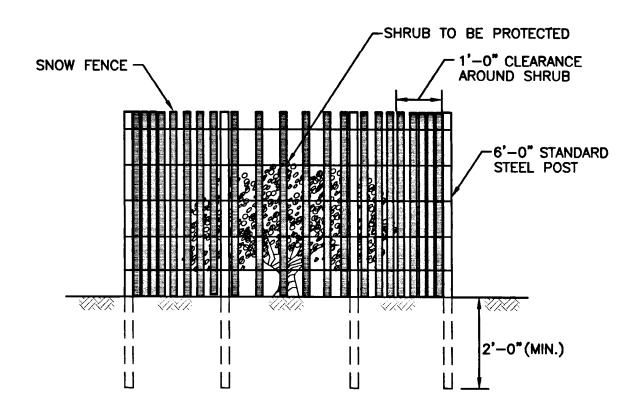
REVISIONS			BULB PLANTING DETAIL	R.I. STANDARD
NO.	BY			
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE	√50.7.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE THAT SPORTATION TRANSPORTATION ISSUE DATE	



NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE STANDARD SPECIFICATIONS.

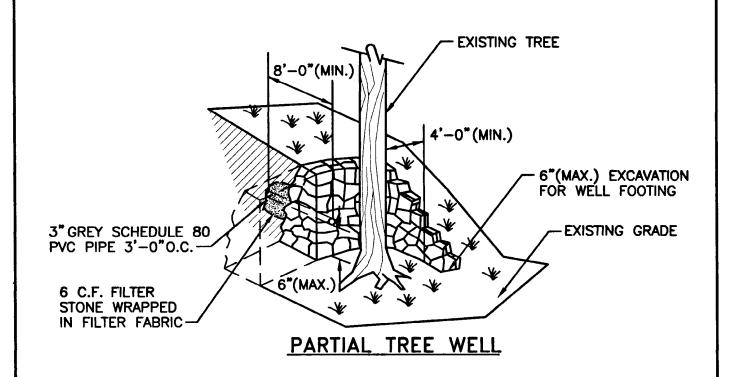
	K	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
REVISI	ONS		
BY	DATE	TREE PROTECTION DEVICE	R.I.
			(STANDARD)
		Come A. Carolli Elment Barbergh JUNE 15, 1998	
		CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION	
		REVISIONS	TREE PROTECTION DEVICE TREE PROTECTION DEVICE CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE

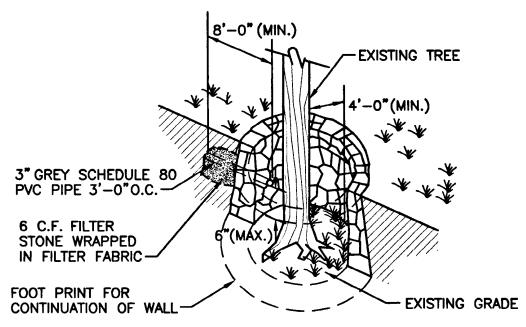




NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.11 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
	REVIS		SUBUR PROTECTION REVICE	
NO.	BY	SHRUB PROTECTION DEVICE		R.I. STANDARD
			CHIEF PRICE PRICE PRICE PARTY INSIDE DATE	51.2.0
			CHIEF ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION TRANSPORTATION ISSUE DATE	

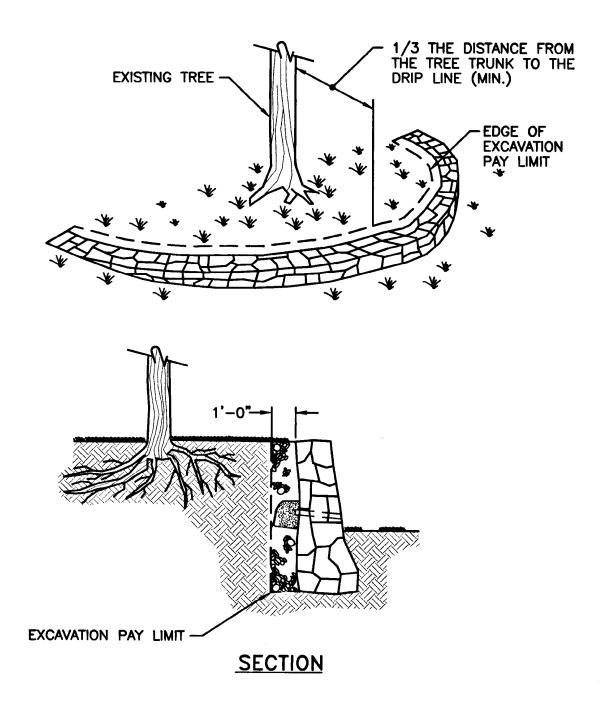




CIRCUMFERENTIAL TREE WELL

NOTE: SHALL BE IN ACCORDANCE WITH SECTION L.13 OF THE R.I. STANDARD SPECIFICATIONS.

		R	HODE ISLAND DEPARTMENT OF TRANSPORTATION	
NO.	REVISI BY	ONS DATE	TREE WELL	R.I.
			CHIP ENGINEER CHIEF DESIGN ENGINEER ISSUE DATE TRANSPORTATION CHIP ENGINEER TRANSPORTATION TRANSPORTATION	STANDARD 51.3.0



- 1. SHALL BE IN ACCORDANCE WITH SECTION L.13 OF THE R.I. STANDARD SPECIFICATIONS.
- 2. FOR WALL INSTALLATION DETAILS REFERENCE STD. 10.0.1.
- 3. PRIOR TO EXCAVATION, THE CONTRACTOR SHALL ROOT PRUNE THE TREE. ALL ROOT PRUNING SHALL BE IN ACCORDANCE WITH SECTION L.10 OF THE R.I. STANDARD SPECIFICATIONS.

			RHODE ISLAND DEPARTMENT OF TRANSPORTATION	
i	REVIS	IONS		
NO.	BY	DATE	TREE WALL	R.I.
			CHIEF DESIGN ENGINEER THAT PORTATION CHIEF DESIGN ENGINEER TRANSPORTATION SSUE DATE	51.4.0